



**LANCASTER COUNTY**  
**CAREER & TECHNOLOGY CENTER**

# **Lancaster County Career & Technology Center Program Guide**

including  
Program Information Sheets  
and  
Skill Alignment Charts

**2018-2019**

An electronic copy of this document can be found on the Lancaster County Career & Technology website at:  
<https://lancasterctc.edu/wp-content/uploads/2018/10/18-19-Program-Guide.pdf>

## **Introduction**

The purpose of this document is to provide guidance to school counselors, parents, and students with information regarding the programs offered at the Lancaster County Career & Technology Center (LCCTC).

The LCCTC, Lancaster County school districts, and the IU13 are dedicated to providing education and training to prepare students for college and career success. We encourage you to use this Program Guide to explore the many options available to students at the LCCTC campuses. Included are recommended courses of study, certification options, financial obligations, and specific skill information for each program. Take the time to review the information and select a path that will fulfill your personal goals for education and or work.

The Lancaster County Career & Technology Center does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Career and technical education program offerings include: healthcare; public safety; consumer services; transportation, construction, advanced manufacturing, visual communications; and culinary arts. Admission criteria is available can be found on the Lancaster County Career & Technology Center website. Inquiries may be directed to the Supervisor of Student Services and Title IX Coordinator or the Section 504 Coordinator at 1730 Hans Herr Drive, Willow Street, PA 17584 or 717-464-7050.

For information regarding the Americans with Disabilities Act (ADA), the rights of an individual with a disability, our obligations under ADA, or grievance procedures, contact the Business Manager and ADA Coordinator, 1730 Hans Herr Drive, PO Box 527, Willow Street, PA 17584-0527. Telephone: 717-464-7050.

For inquiries regarding other nondiscriminatory policies and programs, or for information regarding services, activities, programs and facilities that are accessible to and usable by both disabled persons and national origin minority persons who lack English language skills, contact the Supervisor of Student Services and Coordinator for Title VI, Title IX and Section 504, 1730 Hans Herr Drive, PO Box 527, Willow Street, PA 17584. Telephone: 717-464-7050 x3124



## **Lancaster County Career & Technology Center Staff**

Executive Director	TBD
Assistant Executive Director	B. Keith Yohn
Supervisor of Student Services	Darla Gettle
Supervisor of Curriculum	Mike Moeller
Special Needs Counselor	Carolyn Daneker
Career Development Counselor	Ben Stiles
Student Services Projects Facilitator	Grace Walters

### **Brownstown Campus**

Principal	James Brunken
Assistant Principal	David Warren
Campus Counselor	Ruth Mallinson

### **Mount Joy Campus**

Principal	David Smith
Assistant Principal	Thomas Wolfe
Campus Counselor	Leslie Schlosser

### **Willow Street Campus**

Principal	Michael DelPriore
Assistant Principal	Andra Groller
Campus Counselor	Lynette Thomas

Lancaster-Lebanon Intermediate Unit 13 Staff for the  
**Lancaster County Career & Technology Center**

**Gina Guatta, Program Supervisor**  
**Nicole Stello-Smith, Program Assistant**  
**Kelly Beears, Special Education Consultant**  
**Titina Brown (BT), Carol Reina (MJ) & Erin Schoiack (WS), School**  
**Psychologists**  
**Sue Cammauf & Amy Roth, Social Workers**

	Itinerant Learning Support
Brownstown Campus	Teachers: Kate Weiler, Jonathon Stillman, Pamela Wunderlich, Travis Whiteside
Mount Joy Campus	Teachers: Lesa Brooks, Wendy Mowery, James Tallent, Chris Kauffman
Willow Street Campus	Teachers: Addy Dangler, Rebecca Swiatek, Karen Purdin, Heath Van Aulen, Kathleen Coleman

## Senior Full-Day Program Offerings

Brownstown Campus	Mount Joy Campus	Willow Street Campus
<p><b><u>Advanced Manufacturing Center</u></b> Cabinetmaking &amp; Wood Technology 48.0703</p> <p><b><u>Construction Technologies Center</u></b> Architectural CAD/ Design 15.1303</p> <p>Electrical Construction Technology 46.0399</p> <p>Heavy Equipment Operations &amp; Basic Maintenance 49.0202</p> <p>HVAC/R 47.0201</p> <p>Painting/Ceramic Tile &amp; Vinyl 46.0408</p> <p>Plumbing 46.0503</p> <p><b><u>Information Technology Center</u></b> Computer Systems Technology 15.1202</p> <p><b><u>Visual Communications Center</u></b> Commercial Art 50.0402</p> <p>Digital Design/Print Media 10.0399</p> <p>Photography &amp; Digital Imaging 50.0406</p>	<p><b><u>Advanced Manufacturing Center</u></b> Electro-Mechanical Engineering Technology 15.0403</p> <p>Precision Machining &amp; Computer-Aided Manufacturing 48.0599</p> <p>Sheet Metal Technology 48.0506</p> <p>Welding Technology 48.0508</p> <p><b><u>Construction Technologies Center</u></b> Commercial Construction/Management 46.0201</p> <p>Residential Carpentry 46.0201</p> <p><b><u>Consumer Services Center</u></b> Early Childhood Education 19.0708</p> <p><b><u>Culinary Arts Center</u></b> Baking &amp; Pastry Arts 12.0501</p> <p>Culinary Arts/Chef 12.0508</p> <p>Event Planning &amp; Tourism Services Management 52.1905</p> <p><b><u>Protective Services Center</u></b> Protective Services Academy 43.9999</p>	<p><b><u>Agriscience Center</u></b> Animal Production Science &amp; Technology 01.0901</p> <p>Veterinary Assistant 51.0808</p> <p><b><u>Health Care Center</u></b> Patient Care Technician</p> <p>51.0899</p> <p>Dental Assistant 51.0601</p> <p>Medical Administrative Assistant 51.0707</p> <p>Medical Assistant 51.0801</p> <p>Nursing Assistant/Home Health Aide 51.0899</p> <p>Sports Medicine/Rehabilitation Technician 51.2604</p> <p><b><u>Transportation Technologies Center</u></b> Automotive Mechanics 47.0604</p> <p>Automotive Technology 47.0604</p> <p>Collision Repair 47.0603</p> <p>Diesel Equipment Technology 47.0613</p> <p>RV &amp; Outdoor Power Equipment 47.0699</p>

## Senior Half-Day Program Offerings

Brownstown Campus	Mount Joy Campus	Willow Street Campus
<p><b>Part Day Program for Senior</b></p> <p>Advanced Health Careers (PM session only) 51.0899</p>	<p><b>Part Day Program for Senior</b></p> <p>Advanced Health Careers (PM session only) 51.0899</p>	<p><b>Part Day Program for Senior</b></p> <p>Advanced Health Careers (AM session only) 51.0899</p>

## Junior Half-Day Cluster Program Offerings

<b>Brownstown Campus</b>	<b>Mount Joy Campus</b>	<b>Willow Street Campus</b>
<b>Construction Cluster</b>	<b>Construction Cluster</b>	<b>Construction Cluster</b>
Construction Cluster 46.0201	Construction Cluster 46.0201	Construction Cluster 46.0201
Culinary Cluster 12.0508	Culinary Cluster 12.0508	Culinary Cluster 12.0508
Health Care Cluster (AM session only) 51.0899	Health Care Cluster (AM session only) 51.0899	Health Care Cluster (PM session only) 51.0899
Manufacturing Cluster 48.0508	Transportation Cluster 47.0604	Manufacturing Cluster 48.0508
Transportation Cluster 47.0604		Transportation Cluster 47.0604
Visual Communications Cluster 10.0399		Visual Communications Cluster 10.0399

## **Checklist for Students Considering Lancaster County Career & Technology Center Programs**

The student, parent/guardian, and school counselor should investigate each program being considered to evaluate the student's ability to complete the course requirements. Review skill alignment charts found in this guide for more detailed information about each program.

Prior to submitting a CTC application, a student should:

- Attend the CTC presentation at student's high school
- Meet with high school counselor to discuss program options and results of aptitude, ability, and interest inventories.
- Review the Skill Alignment Chart(s) in this document
- Attend CTC tour(s) offered through the student's high school counseling office
- Attend CTC Open House
- Request an individual visit to programs of interest through the student's high school counseling office



## **Special Education Student Assessment for Transition Planning and for Career Placement**

Assessment produces the information needed by the teams to make planning and placement decisions concerning transition-aged students with disabilities. It is an individualized, on-going process that identifies the needs of the student and helps a student and his/her family to decide what they want the student to do after leaving school. Assessment information is used to write goals and objectives based on student needs. These become incremental steps toward achieving post-high school outcomes. Outcomes include employment, post-secondary education or training, and/or community involvement including; residential, recreation, and leisure. Assessment for transition planning is a continuing process beginning at age 14 when a course of study must be chosen for the student with disabilities. The success of the assessment process depends upon the active involvement of the students and their families.

If a student is interested in enrolling in a career & technical program, a vocational-technical assessment needs to be conducted. Such assessments may include having the student try out several career programs for a period of time to determine which program is appropriate.

### **LANCASTER COUNTY CTC - SELECTION PROCESS**

1. The CTC Staff date stamps all applications that are received by January 26, 2018. If programs are oversubscribed a selection process will be used to determine which students will be selected for the program (see selection criteria below). All late applicants will be put on a waiting list or they may make an alternate choice.
2. Students and sending school counselors will be advised of the selection decisions the week of March 12, 2018.

# SELECTION CRITERIA AND SCORING (To Be Completed by a Sending District Counselor)

Student Name \_\_\_\_\_

1. **Attendance (25 pts)** – Based upon **total days absent (excused and unexcused) from previous full school year through marking period 1 of current year**. Circle the total days absent and the corresponding point value as shown below. Explain excessive absences in comments section below. Points

Days Absent	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25+
Points	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

2. **Discipline (25 pts)** – Based on the number of days of disciplinary incidents (ISS or OSS), circle the number most representative of the student's discipline from **prior year through marking period 1 of the current year**. Points

25	20	15	10	0
• No disciplinary incidents	• 1 day of disciplinary infractions	• 2-3 days of disciplinary infractions	• 4-5 days of disciplinary infractions	• 6 or more days of disciplinary infractions

3. **Academic Readiness (35 pts)**

a. **Academic Rigor** – Choose the category that corresponds to the level of the student's academic coursework. Points

Highly Rigorous - 5	Rigorous - 3	Less Rigorous - 1
Most courses are CP, Honors, and AP	Majority of courses are considered CP	Most courses are non-CP level

b. **Academic Grades** – Circle the number that represents the student's **unweighted GPA** during their high school career. Points

Percentage Average/Unweighted GPA	96-100% or 3.80-4.00	91-95% or 3.55-3.79	86-90% or 3.30-3.54	81-85% or 3.05-3.29	76-80% or 2.80-3.04	71-75% or 2.55-2.79	66-70% or 2.30-2.54	61-65% or 2.05-2.29	<=60% or <=2.04
Points	10	9	8	7	6	5	4	3	0

c. **Credit Status** – Circle the number that best represents the student's current credit status. Points

10	0
• On track with appropriate credits/grade level for CTC program. Special Needs student on track to graduate with IEP goals.	• Currently short credits for appropriate credits/grade level for CTC program

d. **Failed Classes** – Circle the number that corresponds with the number of courses the student **failed during their high school career**. Points

10	6	3	0
• Student failed 0 classes	• Student failed 1 class	• Student failed 2 classes	• Student failed 3+ classes

4. **Teacher Recommendation (35 pts)** – Student applicant should obtain one teacher recommendation from a teacher whose class they completed; teachers will return the recommendations to the high school guidance office to be submitted to LCCTC with the application package. Current Cluster student teacher recommendations will be coordinated by the LCCTC Counselor.

<ul style="list-style-type: none"> <li>• Returning Student</li>      <li>• New Student</li> </ul>	Total Recommendation Score _____ ÷ 2 + 5 = _____ Highly Recommended _____ + 5 = _____  Total Recommendation Score _____ ÷ 2 = _____
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Comments: Use this space to qualify **ANY** of the selection criteria ratings. For example, a medical condition may have caused excessive absenteeism. Extra points may be awarded by the LCCTC Student Services department based on these qualifications or mitigating circumstances.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I have reviewed the selection criteria and scores provided for this applicant and verify their accuracy.

Counselor Signature \_\_\_\_\_ CTC Coord. Counselor Initials \_\_\_\_\_ **TOTAL POINTS**

# Lancaster County Career & Technology Center Program Offerings Programs for High School Seniors

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BT – Brownstown    MJ – Mount Joy    WS - Willow Street    PSTC – Lancaster County Public Safety Training Center

**\*NOTE: All programs are full-day unless indicated \*Half-Day.**

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BT – Brownstown    MJ – Mount Joy    WS - Willow Street    PSTC – Lancaster County Public Safety Training Center

**\*NOTE: All programs are full-day unless indicated \*Half-Day.**

### **Program Information for:**

### **\*Advanced Health Careers – CIP Code 51.0899(BT/MJ/WS)**

The following information is extremely important for you to know about this program.

- Shadow health care professionals in a variety of clinical settings to observe patient care.
- Practice ethical standards, confidentiality, leadership, and professionalism when interacting with patients, clients, and coworkers.
- Develop student interest in a health care profession by using college level curriculum.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Health Care Safety</li> <li>• 24 Hour Clock</li> <li>• History and Trends of Health Care</li> <li>• Health Care Team</li> <li>• Health Care Economics</li> <li>• Ethics and Legal Aspects of Health Care</li> <li>• Communication</li> <li>• Wellness Education</li> <li>• Growth and Development</li> <li>• Introduction to Medical Terminology</li> <li>• Client Assessment</li> <li>• Clinical Observation/Career Experience</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$238 approx.</p> <p><u>Certifications:</u> BLS Healthcare Provider- <b>\$7</b>, National Safety Council- Bloodborne &amp; Airborne Pathogens- <b>No Cost</b></p> <p><u>Tools/Materials:</u> \$25 approx.</p> <p><u>Uniforms:</u> \$110 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$10.00</p> <p><u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• TB test 1-2 step depending on clinical site requirement, Record of Immunizations- <b>Cost Varies</b></li> <li>• Criminal Background (depending on campus)- <b>\$10</b></li> <li>• Child Abuse History (depending on history)-<b>\$10</b></li> <li>• During school year: Basic Life Support for Healthcare Providers- <b>Cost Varies</b></li> </ul>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Cardiovascular</li> <li>• Diagnostic Imaging</li> <li>• Emergency Medical Services</li> <li>• Health Information Management</li> <li>• Massage Therapy</li> <li>• Medical Laboratory</li> <li>• Occupational Therapy</li> <li>• Pharmacy</li> <li>• Physical Therapy</li> <li>• Physician's assistant</li> <li>• Pre-Med</li> <li>• Respiratory Care</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• American Heart Association- BLS Healthcare Provider (no accommodations)</li> <li>• National Safety Council- Bloodborne &amp; Airborne Pathogens (no accommodations)</li> </ul>

**Skill Alignment Chart for:**  
**\*Advanced Health Careers– CIP Code 51.0899**

**Brownstown/Mount Joy/Willow Street Campus Senior Half-Day Program**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Pretesting with a passing score for reading &amp; writing at college level</li> <li>• Reliable transportation</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clerical perception</li> <li>• General learning</li> <li>• Verbal</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• College</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• 12<sup>th</sup> grade or above</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1-2 hours a day except clinical days</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 2-3 hours daily</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 2 drug/disease cards every day nonclinical</li> <li>• Approximately 9 tasks a year</li> <li>• Journal every day while on clinical (full-page)</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 test every 3 days</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Attention to detail extremely important</li> <li>• Basic computer &amp; keyboarding skills</li> <li>• Demonstrate initiative, responsibility, and critical thinking skills</li> <li>• Excellent oral and written communication skills</li> <li>• Excellent spelling</li> <li>• Good attendance</li> <li>• Good memorization skills</li> <li>• Good time management skills to meet deadlines</li> <li>• Spelling &amp; note taking skills</li> <li>• Transportation for clinical (students must provide own transportation)</li> </ul>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.

**Program Information for:**

**Animal Production Science & Technology – CIP Code 01.0901 (WS)**

The following information is extremely important for you to know about this program.

- Explore the care, management, evaluation, treatment and marketing of agricultural production animals such as beef, dairy, swine, poultry, sheep, goats, and horses.
- Experience the passion of working with animals in a variety of farm settings.
- Interact with experts in the field through job shadowing, clinical experience, co-op opportunities, and FFA membership.

<p align="center"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Animal Safety and Handling</li> <li>• Animal Husbandry Skills</li> <li>• Health Management</li> <li>• Principles of Animal Nutrition</li> <li>• Identify Current Trends in Estrus Detection</li> <li>• Dairy</li> <li>• Equine</li> <li>• Swine</li> <li>• Beef</li> <li>• Poultry</li> <li>• Sheep and Goats</li> <li>• Agriculture Business Management</li> </ul>	<p align="center"><b><u>Program Costs</u></b></p> <p>Textbooks: \$200-250          Certifications: \$0-\$200 approx.          Tools/Materials: \$50-\$60          Uniforms: \$50-\$100 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p>CTSO Fee: \$20.00          Clearances: None</p>
<p align="center"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Agricultural Production/Farmer/Herd Manager</li> <li>• Artificial Insemination Technician</li> <li>• Dairy/Milk Processor</li> <li>• Farrier</li> <li>• Feed Mill Operator</li> <li>• Lab/Research Technician</li> <li>• Poultry Service/Vaccination Technician</li> <li>• USDA Inspector</li> <li>• Veterinary Medicine</li> </ul>	<p align="center"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• FFA Membership</li> <li>• Articulation Agreements with Post-Secondary Programs</li> <li>• Certifications:</li> <li>• Certified Poultry Technician Certification,</li> <li>• Transportation Quality Assurance Certification,</li> <li>• Beef Quality Assurance Certification,</li> <li>• Pork Quality Assurance Plus Certification,</li> <li>• Artificial Insemination,</li> <li>• Dairy Animal Care Quality Assurance,</li> <li>• FEMA Animals in Disasters: Awareness and Preparedness, FEMA Animals in Disasters: Community Planning, FEMA Livestock in Disasters</li> </ul>

**Skill Alignment Chart for:  
Animal Production Science & Technology – CIP Code 01.0901**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Emotional and mental stability</li> <li>• Lift heavy objects/people</li> <li>• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations</li> <li>• Prolonged standing, bending, &amp; stooping</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• General learning</li> <li>• Manual &amp; finger dexterity</li> <li>• Verbal &amp; numerical</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12<sup>th</sup>-College level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Conversions (metric system)</li> <li>• Fractions, decimals, percentages, &amp; ratios</li> <li>• Grade appropriate English, spelling, grammar</li> <li>• Medical math (drug calculations)</li> <li>• Weight</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 3-4 hours daily plus labs</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 30 min. to 1 hour daily</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 40-50 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 2-3 tests/quizzes per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Ability to work with a team to complete projects – very important</li> <li>• Attention to detail extremely important</li> <li>• Excellent communication and critical thinking skills</li> <li>• Excellent hygiene</li> <li>• Good Attendance</li> <li>• Keyboarding skills</li> <li>• Love of animals</li> <li>• Spanish speaking is a plus</li> <li>• Transportation needed for clinical</li> <li>• Willingness to try new things &amp; step out of comfort zone</li> </ul>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.



**Program Information for:  
Architectural CAD/Design – CIP Code 15.1303 (BT)**

The following information is extremely important for you to know about this program.

- Work with experienced home and building designers.
- Create, design and produce complex working drawings from conception to completion.
- Use advanced state of the art software and hardware identical to what professional architects and engineers use.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• The World of Architecture</li> <li>• Basic Home Design</li> <li>• Designing for Health and Safety</li> <li>• Primary Considerations</li> <li>• The Floor Plan</li> <li>• Sleeping Areas</li> <li>• Living Area</li> <li>• Service Area</li> <li>• Plot Plans</li> <li>• Footings, Foundations, and Concrete</li> <li>• The Foundation Plan</li> <li>• Sill and Floor Construction</li> <li>• Wall and Ceiling Construction</li> <li>• Doors and Windows</li> <li>• Stairs</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$70-\$120 approx.  <u>Certifications:</u> International Residential Code 2009-  <b>\$25</b>, American Design Drafting (optional)- <b>\$155</b>  <b>approx.</b>, OSHA- <b>\$25</b>  <u>Tools/Materials:</u> Additional information in new student letter.  <u>Uniforms:</u> \$45 approx.         <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None       </p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Architectural Drafter</li> <li>• Architectural Illustrator</li> <li>• CAD Drafter</li> <li>• Entry Level Drafter</li> <li>• Structural Drafter</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• American Design Drafting Association-Certified Drafter</li> </ul>

**Skill Alignment Chart for:  
Architectural CAD/Design – CIP Code 15.1303**

**Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Depth perception</li> <li>• Excellent self-discipline to focus for long periods of time</li> <li>• Stamina (ability to focus at work station for long periods of time)</li> <li>• Visual acuity</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clinical perception</li> <li>• Form perception</li> <li>• Numerical</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• Technical Reading &amp; Memorization</li> <li>• Technical Writing</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Fractions, decimals, and basic math, ratios, percent's</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1-2 hours each morning</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1-3 chapters per month</li> <li>• 1 vocabulary list every other week</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 35 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 quiz every other week</li> <li>• 1 test per week (average)</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to visualize</li> <li>• Able to work with small groups of people</li> <li>• Computer skills/keyboarding</li> <li>• Excellent problem solving skills</li> </ul>

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**Program Information for:  
Automotive Mechanics – CIP Code 47.0604 (WS)**

The following information is extremely important for you to know about this program.

- Work on today's high tech vehicle's electronic, computerized, and mechanical systems.
- Develop the skills to be successful in a constantly changing automotive industry.
- Analyze, diagnose, maintain, and repair basic and advanced automotive systems.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Tools/Fasteners</li> <li>• Certifications</li> <li>• Suspension and Steering</li> <li>• Brakes</li> <li>• Electrical/Electronic Systems</li> <li>• Engine Performance</li> <li>• Engine Repair</li> <li>• Automatic Transmission and Transaxle</li> <li>• Manual Drive Train and Axles</li> <li>• Heating and Air Conditioning</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$110 approx.  <u>Certifications:</u> PA Safety Inspection License- <b>\$8</b>,  NATEF- <b>\$15</b>, Additional Industry Certifications- <b>Cost Varies</b>  <u>Tools/Materials:</u> Driver's license highly recommended. Additional information in new student letter.  <u>Uniforms:</u> \$58 approx. <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Alignment Technician</li> <li>• Automotive Parts Salesperson</li> <li>• Automotive Inspection Mechanic</li> <li>• General Service Mechanic</li> <li>• Service Manager</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• PA Dept. of Trans- Certified Emissions Inspector</li> <li>• Certified Safety Inspector Category I</li> </ul>

**Skill Alignment Chart for:  
Automotive Mechanics – CIP Code 47.0604**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around moving equipment, hand tools, power tools and other equipment found in the industry</li> <li>• Ability to diagnose the source of a problem quickly and accurately</li> <li>• Ability to work in tight spaces</li> <li>• Ability to work independently, read and follow directions</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Finger dexterity</li> <li>• General learning</li> <li>• Manual dexterity</li> <li>• Spatial</li> <li>• Verbal</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• College level</li> <li>• Good oral and written communication skills</li> <li>• Good spelling skills</li> <li>• Public speaking</li> <li>• Technical reading skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Fractions, decimals, &amp; percentages</li> <li>• Measures-metric system</li> <li>• Weights</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1-2 hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1-1 ½ hours daily</li> <li>• 1-3 chapters a week</li> <li>• 4 workbook assignments</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 35 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 quiz per week</li> <li>• 1 test per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team</li> <li>• Basic computer skills</li> <li>• Drivers education</li> <li>• Driver's license</li> </ul>

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**Program Information for:  
Automotive Technology – CIP Code 47.0604 (WS)**

The following information is extremely important for you to know about this program.

- Work side by side with experienced Automotive Technicians.
- Experience the thrill of diagnosing today's vehicle's complex computer programs and mechanical systems.
- Develop the skills needed to become a part of the Automotive Technology Team.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Tools/Fasteners</li> <li>• Certifications</li> <li>• Suspension and Steering</li> <li>• Brakes</li> <li>• Electrical/Electronic Systems</li> <li>• Engine Performance</li> <li>• Engine Repair</li> <li>• Automatic Transmission and Transaxle</li> <li>• Manual Drive Train and Axles</li> <li>• Heating and Air Conditioning</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$83  <u>Certifications:</u> PA Safety Inspection License- <b>\$8</b>, PA Emissions Inspection License- <b>\$55</b>, NATEF- <b>\$15</b>, Additional Industry Certifications- <b>Cost Varies</b>  <u>Tools/Materials:</u> Driver's license highly recommended. Additional information in new student letter.  <u>Uniforms:</u> \$58 approx. <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Automotive Inspection Technician</li> <li>• Automotive Maintenance Technician</li> <li>• General Repair Technician</li> <li>• Entry Level Transmission Technician</li> <li>• Entry Level Drivability Technician</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• PA Dept. of Trans- Certified Emissions Inspector</li> <li>• Certified Safety Inspector Category I</li> </ul>

**Skill Alignment Chart for:  
Automotive Technology – CIP Code 47.0604**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around moving equipment, hand tools, power tools and other equipment found in the industry</li> <li>• Ability to diagnose the source of a problem quickly and accurately</li> <li>• Ability to work in tight spaces</li> <li>• Ability to work independently, read and follow directions</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Finger dexterity</li> <li>• General learning</li> <li>• Manual dexterity</li> <li>• Spatial</li> <li>• Verbal</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• College level</li> <li>• Good oral and written communication skills</li> <li>• Good technical reading skills</li> <li>• Public speaking</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Fractions, decimals, &amp; percent's</li> <li>• Measures-metric system/standard</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• ½ to 1 ½ hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1-3 chapters a week (more at beginning)</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 35 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Shop and written tests at end of every unit</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Background knowledge of electricity</li> <li>• Basic computer skills</li> <li>• Drivers education</li> <li>• Transportation needed for employment success</li> </ul>

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**Program Information for:  
Baking & Pastry Arts – CIP Code 12.0501 (MJ)**

The following information is extremely important for you to know about this program.

- Work in a state of the art facility with professional pastry chefs.
- Combine creativity and skills to design specialty cakes and pastries.
- Produce baked goods and plated desserts for our restaurant, store, and catering events.

<p align="center"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Bakeshop ingredients</li> <li>• Mise en Place &amp; Culinary Math</li> <li>• Quick Breads</li> <li>• Artisan and Yeast Breads</li> <li>• Enrich Yeast Dough</li> <li>• Cookies &amp; Brownies</li> <li>• Pies &amp; Tarts</li> <li>• Pastry and Desert Components</li> <li>• Cakes and Icings</li> <li>• Custards, Creams and Sauces</li> <li>• Ice Cream and Frozen Desserts</li> <li>• Healthful &amp; Special Needs Baking/Nutrition</li> </ul>	<p align="center"><b><u>Program Costs</u></b></p> <p><u>Textbooks and Certification fee:</u> \$75  <u>Tools/Materials:</u> Additional Information in the New Student Letter.  <u>Uniforms:</u> \$164 approx. (total package includes shoes)</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p align="center"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Baker</li> <li>• Baker's Helper</li> <li>• Bakery Manager</li> <li>• Cake Designer/Decorator</li> <li>• Pastry Chef</li> <li>• Pastry Cook</li> </ul>	<p align="center"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• ServSafe Certification</li> <li>• American Culinary Federation Certificate- Pastry</li> </ul>

**Skill Alignment Chart for:  
Baking & Pastry Arts – CIP Code 12.0501**

**Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around kitchen equipment, knives, and other tools and equipment found in the industry</li> <li>• Ability to tolerate heat</li> <li>• Ability to work in a fast-paced environment</li> <li>• Good personal hygiene</li> <li>• Stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of Average or above on: <ul style="list-style-type: none"> <li>• Color Discrimination</li> <li>• Manual Dexterity</li> <li>• Numerical</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12<sup>th</sup> grade</li> <li>• Good oral communication skills</li> <li>• Reading comprehension – Recipes</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Decimals</li> <li>• Fractions</li> <li>• Percentages</li> <li>• Ratio and Proportion</li> <li>• Weights/measures</li> <li>• Word Problems/Metric</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 7 hours/week</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1 chapter per week with homework assignment-both math &amp; baking</li> <li>• Daily during ServSafe</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Varies</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 per week both math and baking</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Attention to detail</li> <li>• Creativity</li> <li>• Excellent eye/hand coordination and fine motor skills</li> </ul>

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**Program Information for:**  
**Cabinetmaking & Wood Technology – CIP Code 48.0703 (BT)**  
 The following information is extremely important for you to know about this program.

- Manufacture custom furniture, cabinetry and millwork
- Operate state-of-the-art industrial machinery, computer controlled equipment, hand and power tools
- Earn valuable industry certifications in safety, tools, and equipment operations

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Demonstrate Knowledge of Lumber &amp; Cabinetmaking Materials</li> <li>• Read Blueprints</li> <li>• Demonstrate the Proper Use of Hand Tools</li> <li>• Perform Safe Sharpening Procedures</li> <li>• Demonstrate Knowledge of Safety Rules for Stationary Power Equipment</li> <li>• Demonstrate Proper Use of Stationary Power Equipment</li> <li>• Demonstrate Portable Power Tool Safety</li> <li>• Demonstrate Machining and Related Operations</li> <li>• Demonstrate Procedures for Cutting and Shaping Wood Components</li> <li>• Apply Various Glues and Adhesives</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$110 (2 textbooks with online access)  <u>Certification:</u> ABC Registration- <b>\$25</b>, OSHA- <b>\$25</b>  <u>Tools/Materials:</u> \$100 approx.  <u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Cabinetmaker and Installer</li> <li>• Furniture Maker/Refinisher</li> <li>• Kitchen Installer</li> <li>• Millworker</li> <li>• Woodworking Machinery Operator</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• National Center for Construction Ed. &amp; Research Core Certification</li> <li>• Woodwork Manufacturing Skill Standards</li> </ul>

**Skill Alignment Chart for:  
Cabinetmaking & Wood Technology – CIP Code 48.0703**

**Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Physical strength and stamina</li> <li>• Ability to lift 50 lbs. overhead</li> <li>• Ability to work independently</li> <li>• No fear of heights or working in closed spaces</li> <li>• Good eye/hand coordination</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Finger dexterity</li> <li>• Manual dexterity</li> <li>• Eye/hand/foot coordination</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 10-11th grade level</li> <li>• Follow oral and written instructions</li> <li>• Technical reading</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Ability to measure to the 32nd of an inch</li> <li>• Ability to visualize in 3 dimensions</li> <li>• Fractions, decimals and conversion of decimals and fractions</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 30 minutes per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Minimal</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 25+ tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 3 Major tests/marketing period</li> <li>• NOCTI Assessment</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Driver's license strongly recommended</li> <li>• Able to problem solve</li> <li>• Teamwork</li> </ul>

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**Program Information for: Collision Repair –  
CIP Code 47.0603 (WS)**

The following information is extremely important for you to know about this program.

- Perform necessary processes using state of the art welding, refinishing, and painting equipment.
- Diagnose damage and estimate repairs to frame, unibody and suspension.
- Experience the thrill of repairing real vehicles to a pre-accident condition.

<p align="center"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Vehicle Design and Construction</li> <li>• Panel Placement and Alignment</li> <li>• Trim and Hardware</li> <li>• Metal Finishing</li> <li>• Body Fillers</li> <li>• Glass and Hardware</li> <li>• Structural Component Repair and Damage Analysis</li> <li>• Structural Components</li> <li>• Corrosion Protection</li> <li>• Welding and Cutting</li> <li>• Cutting Processes</li> <li>• Surface Preparation, Refinishing, and Equipment</li> <li>• Automotive Finishes</li> </ul>	<p align="center"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$130 approx.  <u>Certification:</u> NATEF- <b>\$15</b>  <u>Tools/Materials:</u> \$50 approx.  <u>Uniforms:</u> \$60 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p align="center"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Automotive Parts Salesperson</li> <li>• Body Shop Supplies Salesperson</li> <li>• Collision Technician</li> <li>• Custom Accessories Installer</li> <li>• Estimator</li> <li>• Glass Installer</li> <li>• Reconditioner</li> </ul>	<p align="center"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• EPA- Spray Gun Certification</li> </ul>

**Skill Alignment Chart for:  
Collision Repair – CIP Code 47.0603**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around moving equipment, hand tools &amp; power tools</li> <li>• Ability to work independently, read and follow directions</li> <li>• Ability to work with strong smelling chemicals in dusty environment</li> <li>• Any type of respiratory condition would be a concern</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand/foot coordination</li> <li>• Finger and manual dexterity</li> <li>• Form perception</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12th Grade Level</li> <li>• Good oral and written communication skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic Algebra</li> <li>• Converting: fractions, decimals, ratios &amp; percent's</li> <li>• Linear measurement, working with a ruler</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1 hour daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1-2 chapters per week 1 hour an evening</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 50 tasks during the first 12 weeks of school</li> <li>• Rest of year live work</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 test per week</li> <li>• Quizzes periodically</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work independently and with a small group</li> <li>• Excellent hand/eye coordination and attention to detail</li> <li>• First aid</li> <li>• Good writing skills</li> <li>• Understanding basic electricity</li> </ul>

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**Program Information for:  
Commercial Art – CIP Code 50.0402 (BT)**

The following information is extremely important for you to know about this program.

- Work directly with Advertising and Design Professionals.
- Experience the same hardware/software as professional illustrators, graphic designers, and art directors.
- Create high-impact art using traditional drawing tools and professional applications for advertising and marketing materials.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Drawing and Illustration</li> <li>• Color Theory and Application</li> <li>• Digital Imaging</li> <li>• Design, Layout and Production</li> <li>• Typography</li> <li>• Digital Photography</li> <li>• Professional Practices</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Provided on line &amp; by instructor</p> <p><u>Certification:</u> Print Ed- <b>\$20</b></p> <p><u>Tools/Materials:</u> \$310 approx.</p> <p><u>Uniforms:</u> \$55 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Architectural Designer</li> <li>• Corporate/Agency Art Director</li> <li>• Design Studio Artist</li> <li>• Desktop Publisher</li> <li>• Exhibit/Set Designer</li> <li>• Illustrator</li> <li>• Interactive/Web Designer</li> <li>• Interior Designer</li> <li>• Layout/Production Artist Package Designer</li> <li>• Sign Designer</li> <li>• Web Page Designer</li> <li>• Fashion Designer</li> <li>• Animator</li> <li>• Graphic Designer</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• PrintEd Certification: Advertising</li> </ul>

**Skill Alignment Chart for:  
Commercial Art – CIP Code 50.0402**

**Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Depth perception</li> <li>• Excellent self-discipline to focus for long periods of time</li> <li>• Good eye/hand coordination</li> <li>• Stamina (ability to focus at work station for long periods of time)</li> <li>• Visual acuity</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Color Discrimination</li> <li>• Finger dexterity</li> <li>• Form/Perception/Clerical</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 11<sup>th</sup> grade level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Addition, subtraction, multiplication, division, read a rule, manipulate fractions, decimals, percentages, and ratio and proportion</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1 hour per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Preparing for tests/project assignments</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 21 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1-2 tests per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to meet deadlines</li> <li>• Basic drafting knowledge</li> <li>• Computer background</li> <li>• Drawing ability and color keenness</li> <li>• Eye/hand coordination</li> </ul>

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**Program Information for:  
Commercial Construction/Management – CIP Code 46.0201 (MJ)**

The following information is extremely important for you to know about this program.

- Construct building projects from site prep and layout to roofing and finish work.
- Operate the latest industry tools and equipment, including hand and power tools, excavation equipment, and safety gear.
- Develop valuable industry certifications in safety, tools, and equipment operations as well as apprenticeship.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Hand Tools</li> <li>• Power Tools</li> <li>• Blueprints Reading</li> <li>• Site Preparation and Layout</li> <li>• V-footings and Foundations</li> <li>• Framing- Floor Construction</li> <li>• Framing- Wall Construction</li> <li>• Framing- Roof Construction</li> <li>• Exterior Finish</li> <li>• Interior Finish</li> <li>• Estimation</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Online access to text (\$85) <b>or</b> Textbooks(\$180)</p> <p><u>Certification:</u> ABC Registration- <b>\$25</b>, OSHA- <b>\$25</b>, Additional Industry Certifications (optional)- <b>Cost Varies</b></p> <p><u>Tools/Materials:</u> \$72 approx.</p> <p><u>Uniforms:</u> \$140 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Commercial &amp; Metal StudFramer</li> <li>• Commercial ConstructionCarpenter</li> <li>• Commercial/Industrial Concrete Former</li> <li>• Drop Ceiling &amp; Insulation Installer</li> <li>• Drywall Installer &amp; Finisher</li> <li>• Estimator</li> <li>• Finish Carpenter</li> <li>• Independent Contractor</li> <li>• Project/Construction Manager</li> <li>• Steel Erection</li> <li>• Superintendent</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• National Center for Construction Ed &amp; Research</li> <li>• OSHA</li> <li>• Hilti PowerCertification</li> <li>• High Lift Operations Certification</li> <li>• Skid LoaderCertification</li> </ul>

**Skill Alignment Chart for:  
Commercial Construction/Management – CIP Code 46.0201**

**Mount Joy Campus**

Educational & Physical	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to lift 50 lbs overhead</li> <li>• Ability to work in all weather conditions</li> <li>• Ability to work independently</li> <li>• Good eye/hand coordination</li> <li>• No fear of heights or working on closed spaces</li> <li>• Physical strength and stamina</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand/foot coordination</li> <li>• Finger dexterity</li> <li>• Form perception</li> <li>• Manual dexterity</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• Good reading and technical writing skills</li> <li>• Grade 10 reading level</li> <li>• Follow oral and written directions</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Excellent measurement skills</li> <li>• Strong basic math skills (addition, subtraction, multiplication &amp; division)</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 30 minutes to 1 hour per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Once a week</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 30 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 3 Major tests/markings period</li> <li>• Quizzes</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work as a team player</li> </ul>

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**Program Information for:**  
**Computer Systems Technology – CIP Code 15.1202(BT)**  
 The following information is extremely important for you to know about this program.

- Build, upgrade, maintain and repair desktop and laptop computers.
- Design, install, and troubleshoot computer network configurations.
- Perform custom work for clients: individuals, schools, and businesses.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Demonstrate Knowledge of Personal and Environmental Safety</li> <li>• Demonstrate Knowledge of Computing Fundamentals</li> <li>• Use Productivity Software</li> <li>• Demonstrate Internet Applications</li> <li>• Demonstrate Knowledge of Computer Hardware</li> <li>• Demonstrate Knowledge of Troubleshooting, Repair and Maintenance</li> <li>• Demonstrate Knowledge of Operating Systems and Software</li> <li>• Demonstrate Knowledge of Networking</li> <li>• Demonstrate Knowledge of Security</li> <li>• Providing Customer Service</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$40-\$80 approx.  <u>Certification:</u> CompTIA A+ (2 tests)- <b>\$168</b>, OSHA-<b>\$25</b>,          CompTIA Network+ (optional)-<b>\$125</b>  <u>Tools/Materials:</u> \$210 approx.  <u>Uniforms:</u> \$60 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Computer Consultative Salesperson</li> <li>• Field Service Technician</li> <li>• Industry Technician for PC Support</li> <li>• Digital Home Technology Installer</li> <li>• Network Administrator</li> <li>• Repair Bench Technician</li> <li>• Server Technician</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• CompTIA A+ Certification- Core</li> <li>• A+ Certification-Practical</li> <li>• Net+</li> </ul>

**Skill Alignment Chart for:  
Computer Systems Technology – CIP Code 15.1202  
Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Excellent self-discipline to focus for long periods of time</li> <li>• Good eye/hand coordination</li> <li>• Stamina (ability to focus at work station for long periods of time)</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clerical perception</li> <li>• Color discrimination</li> <li>• Finger dexterity</li> <li>• General learning</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 11<sup>th</sup> grade</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• Minimum of 1-2 hours per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Various projects (infrequent)</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Impromptu in-school PC repair</li> <li>• Task grid-100 tasks: 20 exams, certification tests and certs</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 - 2 per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Competent PC user (not expert)</li> <li>• Detail oriented</li> <li>• Excellent social skills for working with customers</li> <li>• Logical/critical thinking capabilities</li> </ul>

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**Program Information for:  
Culinary Arts/Chef – CIP Code 12.0508 (MJ)**

The following information is extremely important for you to know about this program.

- Plan, prepare and serve meals for upscale catered events and casual-to-fine dining restaurant service.
- Work side by side with professional chefs starting in the school kitchens and moving into professional placements.
- Prepare for job opportunities locally, abroad, and in exotic locations in the diverse culinary and hospitality industry.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Purchasing, Receiving and Storage Procedures</li> <li>• Demonstrate Skill in Garde Mange'</li> <li>• Demonstrate Use and Care of Cutting Tools &amp; Utensils</li> <li>• Demonstrate Use and Care of Mechanical Food Preparation Equipment</li> <li>• Demonstrate How to Prepare Standardized Recipes</li> <li>• Demonstrate Knowledge of Nutrition</li> <li>• Prepare Breakfast Foods</li> <li>• Demonstrate Knowledge of Beverages</li> <li>• Prepare Vegetables and Fruits</li> <li>• Prepare Pasta and Rice</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Textbook with ServSafe Certification \$75</p> <p><u>Certification:</u> Certified Junior Culinarian (optional)-\$35 approx.</p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$238 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Bus Person</li> <li>• Caterer</li> <li>• Deli Clerk</li> <li>• Department Manager</li> <li>• Line Cook</li> <li>• Meat Buyer</li> <li>• Meat Cutter</li> <li>• Meat Processor</li> <li>• Prep Cook</li> <li>• Restaurant Host</li> <li>• Short Order Cook</li> <li>• Sous Chef</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• ServSafe</li> <li>• American Culinary Federation</li> <li>• Cook</li> </ul>

**Skill Alignment Chart for:  
Culinary Arts/Chef – CIP Code 12.0508**

**Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on preparing, holding and serving safe food</li> <li>• A focus on safety around kitchen equipment, knives, and other tools and equipment found in the industry</li> <li>• Ability to work in a fast-paced environment</li> <li>• Good personal hygiene</li> <li>• Stamina needed to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Color discrimination</li> <li>• Finger dexterity</li> <li>• Manual dexterity</li> <li>• Verbal &amp; numerical</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12th grade to college</li> <li>• Good oral communication skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• 8th grade Math level</li> <li>• Basic measurements</li> <li>• Compute ratio, rate &amp; percent's</li> <li>• Decimals</li> <li>• Fractions</li> <li>• Percentages</li> <li>• Weights/measurements</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 2 hours every Monday and Wednesday</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• On average, 1 chapter/week and 1 workbook assignment/week and 1 chapter math w/test each week</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 28/2 week rotation</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 test per week, culinary essentials, math, and ServSafe</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Creativity &amp; Attention to detail</li> <li>• Excellent eye/hand coordination</li> <li>• Multi-tasking ability</li> <li>• Not afraid to get dirty</li> <li>• Students will daily: wash dishes/pots/pans, scrub floors, trash removal</li> <li>• Students will weekly: scrub hoods, scrub floor drains/trash cans, de-lime</li> </ul>

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**Program Information for:  
Dental Assistant – CIP Code 51.0601 (WS)**

The following information is extremely important for you to know about this program.

- Experience the satisfaction of providing high quality patient care in a team-oriented, modern dental office environment.
- Perform a wide variety of dental office duties with other dental professionals that include taking x-rays, mixing materials, passing instruments, sterilization and receptionist duties.
- Work alongside other dental professionals to ensure patients receive the highest quality dental care.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Introduction to Dental Assisting</li> <li>• Principles of Infection Control</li> <li>• Safety and Emergency Procedures</li> <li>• Ethical/Legal Responsibilities</li> <li>• Anatomy and Physiology</li> <li>• Office Procedures</li> <li>• Pharmacology</li> <li>• Radiology Skills</li> <li>• Operative Dentistry (Chair Side Dentistry)</li> <li>• Dental Materials</li> <li>• Dental Laboratory Procedures</li> <li>• Oral Surgery</li> <li>• Periodontics</li> <li>• Prosthodontics</li> <li>• Endodontics</li> <li>• Certifications</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p>Textbooks: \$196 approx.  <u>Certification:</u> Radiology (mandatory)- <b>\$325</b>, CPR (in class)- <b>\$10 approx.</b>, ICE exam (optional)- <b>\$175</b>  Tools/Materials: \$45 approx.  Uniforms: \$65 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• Hepatitis series (3 step) recommended, Tetanus update required- <b>Cost Varies</b></li> </ul>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Dental assisting</li> <li>• Dental claims evaluator for dental insurance companies</li> <li>• Dental Front Office Receptionist</li> <li>• Dental Sales Representative</li> <li>• Dental Office Manager</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• American Heart Association – CPR</li> <li>• Dental Assisting National Board – Radiation Health &amp; Safety Exam</li> <li>• Infection Control Exam</li> <li>• Certified Dental Assistant (1 year <i>after Graduation</i>)</li> </ul>

**Skill Alignment Chart for:  
Dental Assistant – CIP Code 51.0601**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Emotional and mental stability</li> <li>• Good personal hygiene</li> <li>• Not disturbed by incidences such as bodily fluids, surgeries, injections</li> <li>• Prolonged standing, bending, &amp; stooping</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Finger dexterity</li> <li>• General learning</li> <li>• Manual dexterity</li> <li>• Spatial</li> <li>• Verbal</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12<sup>th</sup> grade</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Measurements of volume and proportion</li> <li>• Metric decimals</li> <li>• Exposure to business accounting or bookkeeping</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 2 ½ - 3 hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Review and master the lecture notes from the day and read required accompanying textbook pages. Study Time – approx. 1-2 hours per night.</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 25 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Approx. 3 tests per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work as a team member to complete projects</li> <li>• Attention to detail extremely important</li> <li>• Basic keyboarding skills</li> <li>• Excellent communication skills</li> <li>• Excellent study skills/Dedication to field</li> <li>• Good personality and excellent hygiene</li> <li>• Problem solver</li> <li>• Self-motivated/Initiative</li> <li>• Transportation needed for clinical</li> </ul>

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**Program Information for:**

**Diesel Equipment Technology – CIP Code 47.0613(WS)**

The following information is extremely important for you to know about this program.

- Use the same advanced diagnostic equipment and repair equipment as master technicians to troubleshoot and repair commercial vehicles systems.
- Perform preventative maintenance and inspection on medium- and heavy-duty trucks.
- Maintain and operate today's high tech vehicle's computer systems.

<p align="center"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Tools and Fasteners/Hardware</li> <li>• Suspension and Steering Systems</li> <li>• Preventive Maintenance</li> <li>• Brake System</li> <li>• Demonstrate the Knowledge of the Engine</li> <li>• Air Intake and Exhaust Systems</li> <li>• Demonstrate Knowledge of Cooling System</li> <li>• Fuel System</li> <li>• Electrical/Electronic Systems</li> <li>• Drive Line</li> </ul>	<p align="center"><b><u>Program Costs</u></b></p> <p>Textbooks: \$200 approx.  <u>Certification:</u> OSHA- <b>\$5</b>, Additional Industry certifications-  <b>No Fee</b>  <u>Tools/Materials:</u> Driver's license highly recommended.          Additional information in new student letter.  <u>Uniforms:</u> \$60 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p align="center"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Diesel Truck Line Mechanic</li> <li>• Engine Specialist</li> <li>• Equipment/Parts Salesperson</li> <li>• Hydraulic Systems Specialist</li> <li>• Industrial/Farm Equipment Mechanic</li> <li>• Marine Mechanic</li> <li>• Power Generation Mechanic</li> <li>• Preventive Maintenance Mechanic</li> <li>• Suspension/Driveline Specialist</li> </ul>	<p align="center"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• PA State Inspection- Certified Safety Category III Inspector</li> <li>• OSHA</li> </ul>

**Skill Alignment Chart for:  
Diesel Equipment Technology – CIP Code 47.0613**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around moving equipment, hand tools, power tools and other equipment found in the industry</li> <li>• Ability to diagnose the source of a problem quickly and accurately</li> <li>• Ability to work in tight spaces</li> <li>• Ability to work independently, read and follow directions</li> <li>• Stamina to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Color discrimination</li> <li>• Eye/hand/foot coordination</li> <li>• Finger and manual dexterity</li> <li>• Form perception</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 9th-12th grade or higher tech manuals, 13th-14th year levels</li> <li>• Good oral and written communication skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Fractions, decimals, percent's</li> <li>• Measuring devices to 1/10000 inch</li> <li>• Standard measurement</li> <li>• Weights</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1-3 hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 2-3 hours a week</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 27 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 3-4 tests a week with quizzes</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work as a team</li> <li>• Background electrical knowledge</li> <li>• Basic computer skills</li> <li>• Clean drivers record</li> <li>• Transportation suggested</li> </ul>

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**Program Information for:  
Digital Design/Print Media – CIP Code 10.0399 (BT)**

The following information is extremely important for you to know about this program.

- Work side by side with graphics industry professionals.
- Create projects and art works on state of the art equipment.
- Design printing works using various techniques.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Job Production Management</li> <li>• Art and Copy Preparation</li> <li>• Electronic Imaging</li> <li>• Image Acquisition and Manipulation</li> <li>• Platemaking</li> <li>• Press</li> <li>• Bindery</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Manual/Tutorials- Provided to students</p> <p><u>Certification:</u> 2 PrintEd tests (mandatory)- <b>\$10</b>, 2 tests (optional)- <b>\$10</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$55 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Bindery Operator</li> <li>• Customer Service</li> <li>• Digital Press Technician</li> <li>• Duplicator Operator</li> <li>• Estimator</li> <li>• Folder Operator</li> <li>• Multi-Color Press Operator</li> <li>• Pre-press Technician</li> <li>• Wide Format Operator</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• PrintEd Certification: Graphic Communications</li> </ul>

**Skill Alignment Chart for:  
Digital Design/Print Media – CIP Code 10.0399  
Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around moving equipment</li> <li>• Color Vision</li> <li>• Depth perception</li> <li>• Good manual dexterity</li> <li>• Stamina including focus at work station for long periods of time including standing or sitting for long periods of time</li> <li>• Visual acuity</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Color discrimination</li> <li>• Finger dexterity</li> <li>• Form perception/clerical</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 11th grade level</li> <li>• Good oral and written communication</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Good measurement skills</li> <li>• Manipulation of fractions, decimals, and ability to use percentages and proportions</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1 hour per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Preparing for tests</li> <li>• Print PDF's of curriculum</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 21 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1-2 tests per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to meet deadlines</li> <li>• Ability to work independently and with small groups</li> <li>• Able to work with color</li> <li>• Art/drawing courses</li> <li>• Basic drafting knowledge</li> <li>• Basic word processing skills</li> <li>• Computer courses-Programming</li> <li>• Desktop application, Graphics computer skills</li> <li>• Strong need for attention to detail and mechanical aptitude</li> </ul>

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**Program Information for:**

**Early Childhood Education – CIP Code 19.0708 (MJ)**

The following information is extremely important for you to know about this program.

- Explore the early childhood profession by interacting with infants, toddlers, preschoolers and elementary school children in our modern daycare center.
- Create a professional portfolio for college and careers in early childhood education.
- Design, develop, and deliver early learning activities.

<p align="center"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Professionalism</li> <li>• Health and Safety</li> <li>• Learning Environment (Physical Space)</li> <li>• Child Development (Social, Emotion, Physical, Intellectual, Language Development)</li> <li>• Classroom Management and Positive Guidance</li> <li>• Standards, Curriculum, and Assessment</li> <li>• Curriculum Development</li> <li>• Learning Activates/Experiences</li> <li>• Program Partnerships</li> <li>• Clinical Experience</li> </ul>	<p align="center"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$25 approx.  <u>Certification:</u> Additional Industry Certifications- <b>\$15+, Cost Varies</b>  <u>Tools/Materials:</u> \$150 approx.  <u>Uniforms:</u> \$65 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• State Police Criminal Record Check- <b>\$10</b></li> <li>• DPW Child Abuse- <b>\$10</b></li> <li>• 3 written references</li> <li>• Medical physical with TB test- <b>Student Cost Varies</b></li> </ul>
<p align="center"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Assistant Group Supervisor</li> <li>• Child Care Aide</li> <li>• Child Care Director</li> <li>• Elementary Teacher</li> <li>• Family/Group Day Care Provider</li> <li>• Group Supervisor</li> <li>• Learning Support Teacher</li> <li>• Nanny</li> <li>• Primary Classroom Aide</li> </ul>	<p align="center"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• Bureau of C&amp;T- CDA Ready Certification</li> <li>• Pediatric First Aid for Caregivers and Teachers Certification</li> <li>• Department of Public Welfare- Assistant Group Supervisor Certification</li> </ul>

**Skill Alignment Chart for:  
Early Childhood Education – CIP Code 19.0708**

**Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to lift 30 lbs</li> <li>• Good physical health (current physical &amp; TB test required)</li> <li>• Personal cleanliness</li> <li>• Prolonged standing, bending, stooping, walking, running, and sitting on the floor and in a child-sized chair</li> <li>• Ability to negotiate the classroom environment</li> <li>• Sit in close proximity to children</li> <li>• Visual and auditory acuity for classroom observation and management</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clerical perception</li> <li>• Color discrimination</li> <li>• Finger and manual dexterity</li> <li>• Motor coordination</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• College level</li> <li>• Good oral &amp; written communications skills</li> <li>• Technical writing skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• College level</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• Varies</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1-3 hours per evening</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 30 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 10 to 15 tests per year; class is project oriented</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• A strong desire to work with children</li> <li>• Ability to demonstrate initiative</li> <li>• Ability to work independently</li> <li>• Child development classes</li> <li>• Classes in general psychology</li> <li>• Computer skills</li> <li>• Excellent organizational and time management skills</li> <li>• Must be self-motivated</li> <li>• Neat appearance &amp; excellent personal hygiene</li> <li>• Think and be creative</li> <li>• Understand the importance of confidentiality</li> <li>• Appreciation of cultural diversity</li> </ul>

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**Program Information for:**  
**Electrical Construction Technology – CIP Code 46.0399 (BT)**  
 The following information is extremely important for you to know about this program.

- Interact with electrical industry experts.
- Develop skills and knowledge needed to build electrical systems.
- Design and construct electrical systems in homes and businesses.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Electrical Principles</li> <li>• Residential Wiring</li> <li>• Commercial Wiring and Motors</li> <li>• Industrial Motor Control</li> <li>• Industry Certifications</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p>Textbooks: Two textbooks plus on-line guide- \$180  <u>Certification:</u> OSHA- \$25, ABC Registration- \$25  <u>Tools/Materials:</u> \$140 approx.  <u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Commercial/Industrial Electrician</li> <li>• Electrical Distributor Salesperson</li> <li>• Line Worker</li> <li>• Residential Electrical Contractor</li> <li>• Residential Electrician</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• National Center for Construction Ed &amp; Research</li> </ul>

**Skill Alignment Chart for:  
Electrical Construction Technology – CIP Code 46.0399  
Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to lift 50 lbs. overhead</li> <li>• Ability to work in all weather conditions</li> <li>• Ability to work independently</li> <li>• Good eye/hand coordination</li> <li>• No fear of heights or working in closed spaces</li> <li>• Physical strength and stamina</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand/foot coordination</li> <li>• Finger dexterity</li> <li>• Form</li> <li>• Good color discrimination</li> <li>• Manual dexterity</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• Follow oral and written instructions</li> <li>• Technical reading skills</li> <li>• Text written on a 12<sup>th</sup> grade level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Fractions, decimals, and basic geometry</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1 hour per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Student is allotted time in class to complete assignments. If not completed in class, work must be completed at home.</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 30 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 12 per marking period</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with others</li> <li>• Able to problem solve</li> </ul>

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**Program Information for:**  
**Electro-Mechanical Engineering Technology – CIP Code 15.0403 (MJ)**  
 The following information is extremely important for you to know about this program.

- Design, invent, and develop a vast array of electro-mechanical simulations for a dynamic experience.
- Interactive lab provides an opportunity to use robotics, hydraulic-pneumatic, and electrical technology systems.
- Analyze, diagnose, maintain, and repair electro-mechanical systems

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Interpret Electrical Symbols on Blueprints and Schematics</li> <li>• Demonstrate Knowledge of Basic Electricity</li> <li>• Measure Components of Electrical Systems</li> <li>• Use the National Electrical Code (NEC) Reference Book</li> <li>• Demonstrate Knowledge of Electrical Resistance</li> <li>• Demonstrate Knowledge of Direct Current (D.C.) Motors</li> <li>• Demonstrate Knowledge of Inductance and Capacitance</li> <li>• Demonstrate Knowledge of Alternating Current (A.C.) Motors</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks/Certification:</u> On-line course and OSHA certification- <b>\$325</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$40 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Engineering Technician</li> <li>• Electro-Mechanical Technician</li> <li>• Industrial Engineering Technician</li> <li>• Industrial Maintenance Technician</li> <li>• Industrial Automation Technician</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• AMIST Certification</li> <li>• OSHA</li> </ul>

**Skill Alignment Chart for:**  
**Electro-Mechanical Engineering Technology – CIP Code 47.0303**  
**Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to understand and follow safety procedures</li> <li>• Ability to work independently, read and follow directions</li> <li>• Able to lift 50lbs to a height of 40inches</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of Average or above on: <ul style="list-style-type: none"> <li>• Color Discrimination</li> <li>• Finger and Manual Dexterity</li> <li>• Numerical</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• College Level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Algebra I</li> <li>• Geometry</li> <li>• Measurement of fractions, decimals, and percent's. Compute ratio, rate, percent's and work with formulas</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• Approximately 90 minutes daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Take home, if needed</li> <li>• Time in class</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Individualized lists according to job desired</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Basic computer skills</li> <li>• Good eye/hand coordination</li> <li>• Good fine motor, spatial, and form perception</li> <li>• Mechanical aptitude and critical thinking skills</li> <li>• Science</li> </ul>

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**Program Information for:**

**Event Planning & Tourism Services Management – CIP Code 52.1905 (MJ)**

The following information is extremely important for you to know about this program.

- Deliver superior customer service to hotel and event guests.
- Team with industry professionals to plan and assemble upscale events and experiences.
- Design promotional flyers and presentations.

<p align="center"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Introduction to Hospitality Industry</li> <li>• Guest Relations/Concierge</li> <li>• Understanding Hospitality Marketing</li> <li>• The Marketing Department</li> <li>• Marketing to Organizations</li> <li>• Safety of the Job in Hospitality</li> <li>• Cashier</li> <li>• Travel and Tourism</li> <li>• Legal and Ethical Responsibilities in Hospitality Management</li> <li>• Front Office Organization</li> <li>• Rooms, Bedding, and Rates</li> <li>• The Reservation Function</li> </ul>	<p align="center"><b><u>Program Costs</u></b></p> <p>Textbooks: Provided by instructor  <u>Certifications:</u> Industry Certifications- <b>\$60</b>  <u>Tools/Materials:</u> \$20 approx.  <u>Uniforms:</u> \$170 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p align="center"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Front Desk Agent/Supervisor</li> <li>• Housekeeping Inspector/Supervisor</li> <li>• Marketing &amp; Sales Representative</li> <li>• Reservations Agent</li> <li>• Night Auditor</li> <li>• Catering Representative</li> <li>• Event Planner</li> <li>• Vacation Planner</li> </ul>	<p align="center"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• Amer. Hotel &amp; Lodging Ed Inst- Cert Rooms Division Specialist (CRDS)</li> </ul>

**Skill Alignment Chart for:  
Event Planning & Tourism Services Management – CIP Code 52.1905  
Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to lift 30 lbs</li> <li>• Good physical health</li> <li>• Personal cleanliness</li> <li>• Prolonged standing, bending, &amp; stooping</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clerical perception</li> <li>• General learning</li> <li>• Verbal</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12th grade</li> <li>• Excellent oral communication skills</li> <li>• Public speaking</li> <li>• Technical writing skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic Algebra and business math</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• Varies</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1-2 chapters a week</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 20-35 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 test/week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Basic accounting</li> <li>• Basic computer skills</li> <li>• Classes in Family &amp; Consumer Sciences</li> <li>• Creativity</li> <li>• Excellent personal hygiene</li> <li>• Strong attention to detail</li> </ul>

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**Program Information for:**

**Heavy Equipment Operations & Basic Maintenance – CIP Code 49.0202 (BT)**

The following information is extremely important for you to know about this program.

- Operate, troubleshoot, and maintain heavy equipment.
- Interpret blueprints and site plans for site development.
- Collaborate and perform heavy equipment-related activities in a team setting.

<p align="center"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Hand Tools</li> <li>• Introduction for Power Tools</li> <li>• Basic Rigging- Objectives and Performance Tasks</li> <li>• Employability Skills</li> <li>• Heavy Equipment Safety</li> <li>• Preventative Maintenance</li> <li>• Major Division 8 Grades</li> <li>• Major Division 9 Dump Trucks</li> <li>• Vibratory Rollers</li> <li>• Skid-Steer Loaders</li> <li>• Crawler Loaders</li> <li>• Wheel Loaders</li> <li>• Dozers</li> </ul>	<p align="center"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Two textbooks with online access- \$180  <u>Certifications:</u> ABC Registration- <b>\$25</b>, OSHA Forklift- <b>TBD</b>  <u>Tools/Materials:</u> \$25 approx.  <u>Uniforms:</u> \$185 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p align="center"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Compact Equipment Operator</li> <li>• Concrete Technician</li> <li>• Heavy Equipment Mechanics Helper</li> <li>• Highway Construction Inspector</li> <li>• Highway Construction Laborer</li> <li>• Highway Maintenance Worker</li> <li>• Large-size Equipment Operator</li> <li>• Mid-size Equipment Operator</li> <li>• Project Planner</li> <li>• Site-Prep Apprentice</li> <li>• Surveying Apprentice</li> <li>• Traffic Technician</li> </ul>	<p align="center"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• OSHA</li> <li>• Penn Dot Flagger Certification</li> <li>• National Center for Construction Education and Research</li> </ul>

**Skill Alignment Chart for:  
Heavy Equipment Operations & Basic Maintenance – CIP Code 49.0202  
Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety in and around earth moving equipment</li> <li>• Ability to diagnose the source of a problem quickly and accurately</li> <li>• Ability to work independently, read and follow directions</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand for long periods of time</li> <li>• Willingness to work in all kinds of weather</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand/foot coordination</li> <li>• Finger and manual dexterity</li> <li>• Form perception</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• College</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Compute ratio, rate and percent</li> <li>• Measurements of fractions, decimals &amp; percent's</li> <li>• Standard measurement</li> <li>• Tape measurement reading to the 16th of an inch</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• Every day 9:00 – 11:30AM</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• On average 1 hour an evening</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 40 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 3-4 tests a week (Hands-on/written)</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Ability to work with a team to complete projects</li> <li>• Compute ratio, rate, and percent</li> <li>• Critical thinking skills</li> <li>• Detail oriented</li> <li>• Excellent computer skills</li> </ul>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor.**

**Program Information for: HVAC/R – CIP  
Code 47.0201 (BT) (Heating/Ventilation/Air  
Conditioning/Refrigeration)**

The following information is extremely important for you to know about this program.

- Work side by side with experienced HVAC industry professionals.
- Analyze and upgrade climate control systems to the ever changing HVAC field.
- Install, maintain, and repair air conditioning and heating equipment.

<p align="center"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Tools for HVAC/R</li> <li>• Blueprint Reading</li> <li>• Piping Practices</li> <li>• Basic Electricity</li> <li>• Introduction to Cooling</li> <li>• Introduction to Heating</li> <li>• Air Distribution Systems</li> <li>• Introduction to Hydronic Systems</li> <li>• Leak Detection, Evacuation, Recovery and Charging</li> <li>• Troubleshooting Gas Heating</li> <li>• Troubleshooting Cooling</li> <li>• Heat Pumps</li> <li>• Computer Fundamentals</li> </ul>	<p align="center"><b><u>Program Costs</u></b></p> <p>Textbooks: \$173  <u>Certifications:</u> ABC Registration- <b>\$25</b>, OSHA- <b>\$25</b>, EPA- <b>\$45</b>  <u>Tools/Materials:</u> Additional information in new student letter.  <u>Uniforms:</u> \$80 approx. <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p align="center"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Air Conditioning Installer</li> <li>• Duct Installer</li> <li>• General HVAC Technician</li> <li>• Heat Pump Technician</li> <li>• Oil/Gas Burner Technician</li> <li>• Pipe Fitter</li> <li>• Electrical/Climate Control Technician</li> </ul>	<p align="center"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• National Center for Construction Ed &amp; Research</li> <li>• AC &amp; R Institute- EPA 608 Certification</li> </ul>

**Skill Alignment Chart for:**  
**HVAC/R – CIP Code 47.0201**  
 (Heating/Ventilation/Air Conditioning/Refrigeration)

**Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to lift 50 lbs overhead</li> <li>• Ability to work in all weather conditions</li> <li>• Ability to work independently</li> <li>• Good eye/hand coordination</li> <li>• No fear of heights or working on closed spaces</li> <li>• Physical strength and stamina</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Color Discrimination</li> <li>• Eye/hand/foot coordination</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• Follow oral and written instructions</li> <li>• Technical reading &amp; writing</li> <li>• Text written on a 12<sup>th</sup> grade level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Fractions and decimals</li> <li>• Geometry</li> <li>• Measurements</li> <li>• Whole numbers</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1.5 - 2 hours per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• In School assignments (Content, task, vocabulary)</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 20 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Average 10 tests per marking period</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to visualize in 3 dimensions</li> <li>• Attention to detail</li> <li>• Extensive problem solving</li> <li>• Strong attention to detail</li> <li>• Willingness to do work outside of classroom, especially studying</li> </ul>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.

## Medical Administrative Assistant – CIP Code 51.0707 (WS)

The following information is extremely important for you to know about this program.

- Perform computerized medical office operations in scheduling, billing, and medical records.
- Be a driving force on a professional healthcare team by delivering high quality customer service while performing clerical and other administrative duties in medical centers, physician offices, and hospitals.
- Practice ethical standards, confidentiality, and professionalism when interacting with patients, coworkers, and other medical professionals.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Infection Control</li> <li>• Office Technology</li> <li>• The Eco-Friendly Medical Office</li> <li>• Medical Terminology with Anatomy &amp; Physiology</li> <li>• Medical Law &amp; Ethics</li> <li>• Medical Receptionist Skills</li> <li>• Medical Records</li> <li>• Electronic Health Records</li> <li>• Fees, Credit, and Collection</li> <li>• Health Insurance Systems, Coding, Billing</li> <li>• Medical Transcription</li> <li>• Pharmacology</li> <li>• Practice Management Program (PMP) Software</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$350 approx.</p> <p><u>Certifications:</u> CEHRS (optional)- <b>\$105</b>, CMAA (optional)- <b>\$105</b>, CBCS (optional)- <b>\$105</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$77 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• CPR Certification must have by Dec.- <b>Cost Varies</b></li> <li>• Criminal Background Check- <b>\$10</b></li> <li>• Physical with Tuberculin Test- PPD (required by PA Law and Dept. of Health)- <b>Cost Varies</b></li> </ul>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Medical Coding Specialist</li> <li>• Medical Insurance/Reimbursement Specialist</li> <li>• Medical Records Technician</li> <li>• Medical Scheduler</li> <li>• Medical Secretary</li> <li>• Medical Transcriptionist/Editor</li> <li>• Patient Registration</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• AHA Heartsaver CPR Certification</li> <li>• Bloodborne &amp; Airborne Pathogens Certification.</li> <li>• <i>After graduation students are eligible to take:</i> <ul style="list-style-type: none"> <li>○ Certified Billing and Coding Specialist</li> <li>○ Certified Medical Administrative Assistant</li> <li>○ Certified Electronic Health Records Specialist</li> <li>○ (These are through the National Health Career Association)</li> </ul> </li> </ul>

**Skill Alignment Chart for:  
Medical Administrative Assistant – CIP Code 51.0707**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Excellent self-discipline to focus for long periods of time</li> <li>• Stamina (ability to focus at work station for long periods of time)</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clerical perception</li> <li>• Finger dexterity</li> <li>• General learning</li> <li>• Numerical</li> <li>• Verbal</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• College</li> <li>• Strong grammar and punctuation skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Accounting/basic math</li> <li>• Roman numerals</li> <li>• Understand numbers for numeric filing</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 2+ hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1-3 hours daily</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 25 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 2-4 tests per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Attention to detail extremely important</li> <li>• Computer skills in area of word-processing</li> <li>• Excellent keyboarding skills</li> <li>• Good attendance</li> <li>• Transportation for clinical</li> </ul>

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**Program Information for:  
Medical Assistant – CIP Code 51.0801 (WS)**

The following information is extremely important for you to know about this program.

- Apply advanced diagnostic procedures to patient care such as phlebotomy and pharmacology; assist in minor office surgeries.
- Participate in a 7 week medical assistant externship in a medical facility.
- Be a driving force on a professional healthcare team delivering high quality patient care.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Medical Assistant Administrative Functions</li> <li>• Pharmacology</li> <li>• Infection Control</li> <li>• Introduction to Medical Laboratory Techniques</li> <li>• Introduction to Human Wellness and Disease</li> <li>• Healthcare Law and Ethics</li> <li>• Introduction to Medical Insurance and Managed Care</li> <li>• Concepts of Effective Communication</li> <li>• Introduction to Human Biology</li> <li>• Introduction to Computer Application</li> <li>• Medical Assistant Clinical Laboratory Procedures</li> <li>• Safety and Emergency Practices</li> <li>• Medical Assisting Externship</li> <li>• Professional Development</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p>Textbooks: \$350 approx.  <u>Certifications: CMA- \$149</u>  Tools/Materials: \$70 approx.  <u>Uniforms: \$80 approx.</u></p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee: \$20.00</u>  <u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• CPR Certification- <b>\$60, Cost Varies</b></li> <li>• Criminal Background Check- <b>\$10</b></li> <li>• Physical exam with immunization- MMR(2), Varcello (only if no records exist), Hepatitis series (3 step), Tuberculin test PPD (required by PA Law and Dept. of Health), Drug Screening (only if office requires for clinical experience)- <b>Cost Varies</b></li> </ul>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Administrative Medical Assistant</li> <li>• Clinical Medical Assistant</li> <li>• EKG Technician</li> <li>• Hospital Unit Secretary</li> <li>• Phlebotomist</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• AHA American Heartsaver First Aid Certification</li> <li>• AHA CPR for Healthcare Provider with AED</li> <li>• American Red Cross Community First Aide and Safety</li> <li>• NHA Certified ECG/EKG Technician</li> <li>• NHA Certified Phlebotomy Tech</li> <li>• NHA Certified Clinical Medical Assistant</li> </ul>

**Skill Alignment Chart for:  
Medical Assistant – CIP Code 51.0801**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Emotional and mental stability</li> <li>• Empathy to understand the pains and suffering of others</li> <li>• Good personal hygiene</li> <li>• Lift heavy objects/people</li> <li>• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations</li> <li>• Prolonged standing, bending, &amp; stooping</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• General learning</li> <li>• Manual &amp; finger dexterity</li> <li>• Verbal</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12<sup>th</sup> Grade</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Fractions, decimals, percentages, ratios</li> <li>• Medical math for drug dosing</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 3 hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 2 hours daily</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 20 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 5-6 tests a week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Attention to detail extremely important</li> <li>• Excellent communication and critical thinking skills</li> <li>• Good attendance</li> <li>• Keyboarding skills</li> <li>• Transportation needed for clinical</li> </ul>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor.**

**Program Information for:  
Nursing Assistant/Home Health Aide – CIP Code 51.0899 (WS)**

The following information is extremely important for you to know about this program.

- Experience the passion of providing high quality patient care in a long term care facility and private home setting.
- Perform a wide range of basic nursing skills, personal care skills, and enhanced dining experiences in a classroom and real world setting.
- Work with various healthcare team members providing direct patient care.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Professionalism and Legal Issues</li> <li>• Communication</li> <li>• Infection Control</li> <li>• Emergency Care and Disaster Preparedness</li> <li>• Human Needs and Human Development</li> <li>• Moving, Lifting, and Positioning</li> <li>• Health Care Provider Skills</li> <li>• Nutrition and Hydration</li> <li>• Basic Structures and Functions of the Human Body &amp; Related Diseases with Associated Terminology</li> <li>• Death and Dying</li> <li>• Medical Terminology</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks/Certifications:</u> \$150 approx., Additional Industry Certifications- <b>Cost Varies</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$100 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• Criminal Background Check- <b>\$10</b></li> <li>• Physical Examination, Hepatitis Series (3 step) recommended, Tuberculin Test PPD 2 step (required by PA Law and Dept. of Health)- <b>Cost Varies</b></li> <li>• Influenza vaccine (required in October for job shadowing), Proof of PA Residency, CPR &amp; First Aid card- <b>\$10 approx. during school year.</b></li> </ul>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Certified Nursing Assistant</li> <li>• Home Health Care Aide</li> <li>• Patient Care Assistant – Acute Care</li> <li>• Personal Care Aide</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• PA Dept. of Health Nurse Aide Registry</li> <li>• BLS Healthcare Provider</li> <li>• Heartsaver First Aid</li> <li>• Heartsaver CPR</li> <li>• Heartsaver AED</li> <li>• DPW-Personal Care Assistant</li> </ul>

**Skill Alignment Chart for:  
Nursing Assistant/Home Health Aide – CIP Code 51.0899**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Emotional and mental stability</li> <li>• Empathy to understand the pains and suffering of others</li> <li>• Good personal hygiene</li> <li>• Lift heavy objects/people</li> <li>• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations</li> <li>• Prolonged standing, bending, &amp; stooping</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• General learning</li> <li>• Manual &amp; finger dexterity</li> <li>• Verbal &amp; numerical</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 11th grade</li> <li>• Excellent oral and written communication skills (excellent spelling skills)</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Conversions</li> <li>• Height/weight</li> <li>• Manipulation of fractions, decimals &amp; ratios and percent's</li> <li>• Roman numerals</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 2-2.5 hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1-2 hours daily</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 100 tasks prior to clinical</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 3-4 tests a week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Attendance (students can only miss 8 days to qualify for clinical)</li> <li>• Attention to detail extremely important</li> <li>• Basic computer &amp; keyboarding skills</li> <li>• Complete over 100 nursing assistant skills</li> <li>• Demonstrate initiative, responsibility, and critical thinking skills</li> <li>• Drivers education and transportation for clinical</li> <li>• Excellent note taking and listening skills</li> </ul>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor.**

## **Program Information for: Painting/Ceramic Tile & Vinyl – CIP Code 46.0408 (BT)**

The following information is extremely important for you to know about this program.

- Apply professional painting skills to provide property upgrades.
- Install ceramic tile and vinyl flooring utilizing professional hand and power tools.
- Operate various types of “state of the art” spray equipment.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Exterior Painting</li> <li>• Interior Painting</li> <li>• Wood Finishing</li> <li>• Spray Painting</li> <li>• Color/Color Harmony</li> <li>• Wallcoverings</li> <li>• Special Finishes</li> <li>• Estimating/Mathematics</li> <li>• Ceramic Tile Installation</li> <li>• Vinyl Installation</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Provided by instructor</p> <p><u>Certifications:</u> ABC Registration- <b>\$25</b>, OSHA-<b>\$25</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Cabinet &amp; Wood Product Finisher</li> <li>• Ceramic Tile or Vinyl Installer</li> <li>• Drywall Installer &amp; Finisher</li> <li>• Estimator/Measuring, Quoting Prices</li> <li>• Interior Decorating Consultant/Salesperson</li> <li>• Painter or Paperhanger</li> <li>• Sales Representative – flooring, paint</li> <li>• Undercoaters</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• National Center for Construction Ed &amp; Research</li> <li>• OSHA</li> </ul>

**Skill Alignment Chart for:  
Painting/Ceramic Tile & Vinyl – CIP Code 46.0408**

**Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to kneel for extended periods of time(flooring)</li> <li>• Ability to lift 50 lbs overhead</li> <li>• Ability to work independently</li> <li>• Good eye/hand coordination</li> <li>• No fear of heights or working on closed spaces</li> <li>• Physical strength and stamina</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Color Discrimination</li> <li>• Eye/Hand/Foot Coordination</li> <li>• Finger Dexterity</li> <li>• Manual Dexterity</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 10-11th grade level texts</li> <li>• Good writing skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Ability to read a ruler</li> <li>• Adding, subtracting, multiplying &amp; dividing fractions, decimals</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 30 minutes per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 30-40 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 3-5 Tests per week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Attention to detail</li> <li>• Good color discrimination</li> <li>• Must have good eye/hand coordination</li> <li>• Strong attention to detail</li> </ul>

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**Program Information for:  
Patient Care Technician– CIP Code 51.0899 (WS)**

The following information is extremely important for you to know about this program.

- Be a driving force on a professional healthcare team delivering high quality patient care.
- Deliver basic patient care and perform therapeutic and diagnostic procedures in a hospital setting, physician’s office or home health agency.
- Practice ethical standards, confidentiality, and professionalism when interacting with patients, clients and co-workers.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Professionalism and Legal Issues</li> <li>• Communication</li> <li>• Infection Control</li> <li>• Emergency Care and Disaster Preparedness</li> <li>• Human Needs and Human Development</li> <li>• Moving, Lifting, and Positioning</li> <li>• Health Care Provider Skills</li> <li>• Nutrition and Hydration</li> <li>• Basic Structures and Functions of the Human Body &amp; Related Diseases with Associated Terminology</li> <li>• Death &amp; Dying</li> <li>• Medical Terminology</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$275 approx.  <u>Certification:</u> CPR- Healthcare Provider- <b>\$40+, Cost Varies</b>  <u>Tools/Materials:</u> \$30 approx.  <u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• Prior to coming to LCCTC- <ul style="list-style-type: none"> <li>○ Physical with lab testing (blood work), also hepatitis series (3 step), Tuberculin test- PPD (2 step) required by PA Law and Dept. of Health- <b>Varies</b></li> <li>○ Possible charges for criminal background and drug screening (hospital currently covers the \$55) FBI fingerprinting- <b>\$27.50</b></li> </ul> </li> </ul>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• ECG/EKG Technician</li> <li>• Patient Care Assistant – Acute Care</li> <li>• Pharmacist Assistant</li> <li>• Phlebotomist</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• Certified Patient Care Technician</li> <li>• American Heart Association- Heartsaver AED</li> <li>• National Safety Council- Bloodborne &amp; Airborne Pathogens</li> <li>• American Heart Association-CPR</li> </ul>

**Skill Alignment Chart for:  
Clinical Care Assistant – CIP Code 51.0899**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Emotional and mental stability</li> <li>• Empathy to understand the pains and suffering of others</li> <li>• Good personal hygiene</li> <li>• Lift heavy objects/people</li> <li>• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations</li> <li>• Prolonged standing, bending, &amp; stooping</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• General learning</li> <li>• Manual &amp; finger dexterity</li> <li>• Verbal &amp; numerical</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12th grade to College level English</li> <li>• Excellent oral and written communication skills (excellent spelling skills)</li> <li>• High reading comprehension</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Conversions</li> <li>• Fractions, decimals, percent's &amp; ratios</li> <li>• Height/weight</li> <li>• Intermediate Algebra (College level)</li> <li>• Metric system</li> <li>• Roman numerals</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 4 hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 2-3 hours daily</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 20 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 5-8 tests a week including performance tests and academics</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Attention to detail extremely important</li> <li>• Basic computer and keyboarding skills</li> <li>• Demonstrate initiative, responsibility, and critical thinking skills</li> <li>• Excellent note taking and listening skills</li> <li>• Transportation for clinical</li> <li>• Good communication skills</li> </ul>

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**Program Information for:  
Photography & Digital Imaging – CIP Code 50.0406(BT)**

The following information is extremely important for you to know about this program.

- Shoot photos like a professional photographer.
- Creatively enhance photos with Adobe Photoshop.
- Work side by side with established industry professionals.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Camera Operation</li> <li>• Composition</li> <li>• Exposure and Meters</li> <li>• Filters</li> <li>• Lighting</li> <li>• Electronic Imaging</li> <li>• Digital Photography</li> <li>• Employment in Photography</li> <li>• Work Ethic</li> <li>• Interpersonal Skills and Group Dynamics</li> <li>• Thinking and Problem Solving Skills</li> <li>• Literacy Skills</li> <li>• Basic Photographer Knowledge</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p>Textbooks: \$68 approx.          Certifications: CPR- \$12          Tools/Materials: \$500-\$750 approx.          Uniforms: \$50 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p>CTSO Fee: \$20.00          Clearances: None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Commercial Photographer</li> <li>• Graphic Designer</li> <li>• Industrial Photographer</li> <li>• Photographic Finisher</li> <li>• Photojournalist</li> <li>• Photoshop Specialist</li> <li>• Portrait Photographer</li> <li>• Wedding Photographer</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• May be added as availability is determined.</li> </ul>

**Skill Alignment Chart for:  
Photography & Digital Imaging – CIP Code 50.0406**

**Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Color Vision</li> <li>• Depth perception</li> <li>• Stamina (ability to focus for long periods of time)</li> <li>• Visual acuity</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clerical</li> <li>• Color discrimination</li> <li>• Form</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• Textbook written on a 13th grade level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Good measurement skills</li> <li>• Pre-Algebra</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 1-2 hours per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Weekly Assignments</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 30 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1- 2 tests per week</li> <li>• Mid-term</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with small groups</li> <li>• Ability to work with the public (excellent communication skills)</li> <li>• Basic photography skills</li> <li>• Competent computer skills (MAC)</li> <li>• Creativity</li> <li>• Excellent social skills for working with customers</li> <li>• Good handwriting skills</li> <li>• Logical/Critical thinking capabilities</li> <li>• Punctuality</li> </ul>

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**Program Information for:  
Plumbing – CIP Code 46.0503 (BT)**

The following information is extremely important for you to know about this program.

- Interact with plumbing industry experts.
- Perform plumbing systems installation in homes and businesses.
- Interpret and construct plumbing systems in homes and businesses.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Demonstrate Job Site Safety Practices</li> <li>• Read Blueprints and Sketching of Pipe Systems</li> <li>• Demonstrate Knowledge of Pipe Specifications and Systems</li> <li>• Demonstrate Use of Hand and Power Tools</li> <li>• Identify and Install Valves</li> <li>• Demonstrate Skill in Working with Copper Pipe</li> <li>• Demonstrate Skill in Various Types of Plastic Pipe and Tubing</li> <li>• Install Pipe Hangers and Supports</li> <li>• Install Water Distribution Lines</li> <li>• Demonstrate Skill in Working with Steel Pipe</li> <li>• Demonstrate Skill in Working with Cast Iron Pipe</li> <li>• Demonstrate Knowledge of a Builder Leveler</li> <li>• Build Drains and Sewers</li> <li>• Install Fixtures</li> <li>• Install Appliances</li> <li>• Install Vents</li> <li>• Maintain Plumbing Systems</li> <li>• Perform Tests on Piping Systems</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$180 approx.</p> <p><u>Certifications:</u> ABC Registration- \$25, OSHA-\$25</p> <p><u>Tools/Materials:</u> \$500-\$750 approx.</p> <p><u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Commercial Plumbing Installer</li> <li>• Maintenance &amp; Service Plumber</li> <li>• Pipe Fitter</li> <li>• Plumbing Apprentice</li> <li>• Plumbing Materials Sales</li> <li>• Residential Plumbing Installer</li> <li>• Sprinkling System Installer</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• National Center for Construction Ed &amp; Research</li> <li>• National Trac Pipe Certification</li> <li>• Titeflex Interior Gas Piping System</li> <li>• National Certification- Gastite Certified Installer</li> <li>• Hilti Operator</li> </ul>

**Skill Alignment Chart for:  
Plumbing – CIP Code 46.0503**

**Brownstown Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to lift 50 lbs. overhead</li> <li>• Ability to work in all weather conditions</li> <li>• Ability to work independently</li> <li>• Good eye/hand coordination</li> <li>• No fear of heights or working in closed spaces</li> <li>• Physical strength and stamina</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand/foot coordination</li> <li>• Finger dexterity</li> <li>• Motor Coordination</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 10-12th grade level</li> <li>• Follow oral and written instructions</li> <li>• Strong reading comprehension</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Whole numbers, working with measurements, fractions, decimals, constructive geometry &amp; algebra</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 30 minutes to 1 hour per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• In-school assignments</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 40 tasks average per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Average 10 tests per marking period</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to visualize in 3 dimensions</li> <li>• Basic computer skills for online curriculum</li> <li>• Strong attention to detail</li> <li>• Willing to work in all weather conditions</li> <li>• Willingness to work outside of classroom especially studying technical</li> </ul>

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**Program Information for:  
Precision Machining & Computer-Aided Manufacturing - CIP Code  
48.0599 (MJ)**

The following information is extremely important for you to know about this program.

- Earn National Skills Certificates, i.e. National Occupational Competency Testing Institute (NOCTI) PA Skills Certificates and AWS SENSE Level 1 Certificate.
- Successfully transition into a 1st career job and/or related post-secondary training.
- Be proficient in their career major and demonstrate proficiency through hands-on performance and theoretical testing.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Performing Layout Work</li> <li>• Part Inspection</li> <li>• Bench Work</li> <li>• Drill Presses</li> <li>• Grinding Machines</li> <li>• Lathes</li> <li>• Milling Machines</li> <li>• Power Saw</li> <li>• Machines and Tools</li> <li>• Metallurgy</li> <li>• Charts and References</li> <li>• Blueprint Reading</li> <li>• CNC Programming</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$120 approx.</p> <p><u>Certifications:</u> NIMS-National Institute for Metal Working Skills- <b>TBD</b>.</p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Computer Controlled Machine Tool Operator</li> <li>• CNC Machine Tool Programmer</li> <li>• Machinist</li> <li>• Mechanical Engineer</li> <li>• Industrial Engineer</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• NIMS (National Institute for Metalworking Skills)</li> </ul>

**Skill Alignment Chart for:  
Precision Machining & Computer-Aided Manufacturing - CIP Code  
48.0599**

**Mount Joy Campus**

<b>Educational &amp; Physical Attributes</b>	<b>Expectations</b>
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around machining equipment, hand tools, power tools and other equipment found in the industry</li> <li>• Able to lift 50lbs</li> <li>• Ability to work independently, read and follow directions</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	<ul style="list-style-type: none"> <li>• Scores of average or above on:</li> <li>• Finger and manual dexterity</li> <li>• Form perception Motor coordination Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 10<sup>th</sup> Grade Level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Ability to read and use a ruler</li> <li>• Decimals Fractions Metric Percent's</li> <li>• Weights/measurements</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• Approximately 2-5 hours per week</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• None/student's option</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 180 total for year</li> <li>• Work at own pace - daily</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Math</li> <li>• Blueprints</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team and independently to complete projects</li> <li>• Able to convert 2 dimensional drawings into 3 dimensional projects</li> <li>• Basic computer skills</li> <li>• Mechanical drawing</li> </ul>

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**Program Information for:  
Protective Services Academy – CIP Code 43.9999 (PSTC,MJ)**

The following information is extremely important for you to know about this program.

- Experience the thrill and pride of saving lives and protecting the community.
- Use the latest technology and equipment available by operating fire engines, ambulances, Segways, and more!
- Engage in lifesaving emergency medical treatment, firefighting/rescue techniques, and law enforcement operations.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Law- Criminal Justice System</li> <li>• Law- Law Enforcement</li> <li>• Law- Private Security Management</li> <li>• Law- Corrections</li> <li>• Law- Homeland Security</li> <li>• Communications</li> <li>• Incident Command Systems</li> <li>• Bucks Basic Fire Academy</li> <li>• Firefighting- Ropes and Rigging</li> <li>• Emergency Medical Care</li> <li>• Hazardous Materials</li> <li>• Special Days and Activities</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$35 approx.</p> <p><u>Certifications:</u> \$75, additional optional certifications-\$15-\$615 approx.</p> <p><u>Tools/Materials:</u> \$20 approx.</p> <p><u>Uniforms:</u> \$250 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• Criminal History Background Check- <b>\$10</b></li> </ul>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Fire Inspector</li> <li>• Fire Investigator</li> <li>• Fire Protection Engineer</li> <li>• Forest Firefighter</li> <li>• Municipal Firefighter</li> <li>• Volunteer Firefighter</li> <li>• Emergency Services Telecommunicator</li> <li>• Cardiovascular Technician</li> <li>• Emergency Medical Technician</li> <li>• Emergency Room Technician</li> <li>• Emergency Communications Dispatcher</li> <li>• Corrections Officer</li> <li>• Industrial/Private Security Specialist</li> <li>• Local/State/Federal Police Officer</li> <li>• Probation and Parole</li> <li>• Retail Security Specialist</li> <li>• EMT-B</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• <b>American Heart Association:</b> BLS for the Healthcare Provider, Heartsaver First Aid Bucks</li> <li>• <b>CCC:</b> Basic Fire Academy Essentials of Firefighting</li> <li>• <b>FEMA:</b> NIMS/ICS/IS 15, 20.11, 100, 200, 230, 235, 241, 242, 292, 393, 700, 775, 800, 804, 805, 808, 813, 907</li> <li>• <b>NAED:</b> Emergency Telecommunicator</li> <li>• <b>National Board of Fire Service Professional Qualifications:</b> Fire Inspector I, Firefighter 1</li> <li>• <b>National Highway Institute:</b> Managing Traffic Incidents on the Roadway</li> <li>• <b>PA Department of Health:</b> BLS Healthcare EMT-B, CPAP Monitoring</li> <li>• <b>PA Department of Health Continuing Education:</b> Crisis Response, PCR Documentation, START Triage</li> <li>• <b>PA State Fire Academy:</b> Basic Rigging for Rope Rescue, Basic Ropes &amp; Rigging High/Low Angle Rescue 1, Basic Vehicle Rescue Awareness/Operations/Technician, Bloodborne Pathogens and Infectious Disease, Engine Company Operations, Hazardous Materials – Awareness/Operations, High Angle Ropes Rescue 1, Pump Operations 1, Structural Burn Session, Truck Operations 1</li> <li>• <b>Other certification courses:</b> Helicopter Landing Zone Operations, HIPAA</li> </ul>

**Skill Alignment Chart for:  
Protective Services Academy – CIP Code 43.9999  
Public Safety Training Center, Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to work independently</li> <li>• Able to lift 50 pounds</li> <li>• Able to work under pressure/in adverse conditions/within time constraints</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clerical perception</li> <li>• General learning</li> <li>• Manual &amp; Finger Dexterity</li> <li>• Motor/hand/foot/eye coordination</li> <li>• Verbal Communication</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12th grade-college</li> <li>• Excellent written (esp. note-taking) &amp; verbal communication skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Algebra and Geometry</li> <li>• Strong measurement &amp; estimation skills</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• ¾ day daily lecture – 60% of school year</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Average 6-8 hours per week</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Average 20 per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Test intensive</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Attention to detail</li> <li>• Basic computer &amp; keyboarding skills</li> <li>• Clean criminal background check</li> <li>• Demonstrate initiative, responsibility, time management &amp; critical thinking skills</li> <li>• Good attendance</li> <li>• Good physical health and neat appearance</li> </ul>

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## **Program Information for: Residential Carpentry – CIP Code 46.0201 (MJ)**

The following information is extremely important for you to know about this program.

- Experience the construction of a new home using green technology.
- Develop the skills and knowledge needed to interpret and construct current building systems.
- Operate a wide range of hand, power and air tools.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Hand Tools</li> <li>• Power Tools</li> <li>• Blueprints Reading</li> <li>• Site Preparation and Layout</li> <li>• Footings and Foundations</li> <li>• Framing- Floor Construction</li> <li>• Framing- Wall Construction</li> <li>• Framing- Roof Construction</li> <li>• Exterior Finish</li> <li>• Interior Finish</li> <li>• Estimation</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$126 approx.</p> <p><u>Certifications:</u> ABC Registration- <b>\$25</b>, OSHA- <b>\$25</b>, Additional Industry Certifications- <b>Cost Varies</b></p> <p><u>Tools/Materials:</u> \$62 approx</p> <p><u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Concrete Placement &amp; Finisher</li> <li>• Drywall Installer &amp; Finisher</li> <li>• Finish Carpenter</li> <li>• Insulation Installer</li> <li>• Roofer</li> <li>• Rough Carpenter</li> <li>• Siding Installer</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• National Center for Construction Ed &amp; Research</li> <li>• OSHA</li> <li>• Hilti Power Certification</li> <li>• High Lift Operations Certification</li> <li>• Skid Loader Certification</li> </ul>

**Skill Alignment Chart for:  
Residential Carpentry – CIP Code 46.0201**

**Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to lift 50 lbs. overhead</li> <li>• Ability to work in all weather conditions</li> <li>• Ability to work independently</li> <li>• Good eye/hand coordination</li> <li>• No fear of heights or working in closed spaces</li> <li>• Physical strength and stamina</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand/foot coordination</li> <li>• Manual &amp; Finger Dexterity</li> <li>• Manual Coordination</li> <li>• Motor Coordination</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• Follow oral and written directions</li> <li>• Technical writing skills</li> <li>• Text written on a 12<sup>th</sup> grade level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic Algebra, fractions, decimals</li> <li>• Basic Trigonometry/Geometry</li> <li>• Measurement</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 15-20 minutes per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Minimal</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 40 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Weekly quizzes</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to visualize</li> <li>• Driver's license strongly recommended</li> </ul>

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**Program Information for:  
RV & Outdoor Power Equipment – CIP Code 47.0699(WS)**

The following information is extremely important for you to know about this program.

- Diagnose, maintain and repair a wide range of lawn and garden tractors and equipment from motorcycles to ATVs.
- Use same advanced diagnostic and repair equipment as a master technician uses to troubleshoot complex systems.
- Work on any outdoor power equipment and recreational vehicle in a rapidly changing industry using a full systems approach.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Demonstrate Knowledge of the Principles and Design of 2-Cycle and 4-Cycle Engines</li> <li>• Demonstrate Knowledge of Lubrication Systems</li> <li>• Demonstrate Knowledge of Basic Electricity</li> <li>• Demonstrate Knowledge and Service of Cooling Systems</li> <li>• Demonstrate Knowledge of Fuel Systems</li> <li>• Service Fuel Systems on All Engines</li> <li>• Demonstrate the Knowledge and the Service Procedures of Exhaust Systems</li> <li>• Demonstrate Skill with Measuring Systems and Tools</li> <li>• Identify and Use Hand Tools</li> <li>• Identify and Use Fasteners</li> <li>• Demonstrate Welding and Cutting</li> <li>• Diagnose Performance Problems on a 2-Cycle Gasoline Engine</li> <li>• Diagnose Problems on a 4-Cycle Gasoline Engine</li> <li>• Overhaul a 4-Cycle Gasoline Engine</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p>Textbooks: \$184 approx.            Certifications: Industry Certification Exams-<b>\$94</b>            Tools/Materials: \$15 approx.            Uniforms: \$60 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p>CTSO Fee: \$20.00            Clearances: None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Equipment Rental &amp; Sales</li> <li>• Lawn &amp; Garden Equipment Technician</li> <li>• Lawn &amp; Garden Parts Salesperson</li> <li>• Lawn &amp; Garden Service Writer</li> <li>• Motorcycle &amp; Recreational Vehicle Parts Salesperson</li> <li>• Motorcycle &amp; Recreational Vehicle Service Writer</li> <li>• Motorcycle &amp; Recreational Vehicle Technician</li> <li>• Small Engine Technician</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• OPE/EETC: Two Stroke Engine</li> <li>• OPE/EETC: Four Stroke Engine</li> </ul>

**Skill Alignment Chart for:  
RV & Outdoor Power Equipment – CIP Code 47.0699**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around moving equipment, hand tools, power tools and other equipment found in the industry</li> <li>• Ability to diagnose the source of a problem quickly and accurately</li> <li>• Ability to sit for long periods of time</li> <li>• Ability to work independently, read and follow directions</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand or stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand/foot coordination</li> <li>• Finger and manual dexterity</li> <li>• Form perception</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12<sup>th</sup> grade</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Able to manipulate fractions, decimals &amp; percent's</li> <li>• Basic math</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 45 minutes - up to 2.5 hrs daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 1 chapter per week</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 40-50 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 1 quiz per week</li> <li>• 1 test per month</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Able to work independently</li> <li>• Attention to detail extremely important</li> <li>• Good attendance</li> <li>• Good communication skills</li> <li>• Drivers education</li> </ul>

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**Program Information for:  
Sheet Metal Technology – CIP Code 48.0506(MJ)**

The following information is extremely important for you to know about this program.

- Create and fabricate custom metal work.
- Build and troubleshoot advanced sheet metasystems.
- Operate state of the art metal-shaping equipment.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Hand Tools</li> <li>• Hand Held Power Tools</li> <li>• Machines and Equipment</li> <li>• Sheet Metal Mathematics</li> <li>• Blueprints</li> <li>• Sheet Metal Pattern Drafting</li> <li>• ABC Sheet Metal Certification Tasks</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$130 approx.</p> <p><u>Certifications:</u> ABC Registration- <b>\$25</b>, OSHA- <b>\$25</b>, Forklift- <b>\$5.50</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$70 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• CAD Layout/Detailer/Draftsman</li> <li>• Custom Metal Worker</li> <li>• Heavy Shear/Brake Operator</li> <li>• HVAC Residential &amp; Commercial Installer</li> <li>• Layout Worker</li> <li>• Metal Fabricator &amp; Roofer</li> <li>• Millwright</li> <li>• Sheet Metal Installer</li> <li>• Mechanic &amp; Assembler</li> <li>• Sheet Metal Production Worker</li> <li>• Siding/Spouting Installer</li> <li>• Structural Steel Worker</li> <li>• Welder</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• National Center for Construction Ed &amp; Research</li> <li>• OSHA</li> <li>• Hilti Power Actuated Tool Training</li> <li>• National Safety Council Forklift Training</li> </ul>

**Skill Alignment Chart for:  
Sheet Metal Technology – CIP Code 48.0506**

**Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around welding equipment, hand tools, power tools and other equipment found in the industry</li> <li>• Ability to work independently, read and follow directions</li> <li>• Able to lift 50lbs</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand/foot Coordination</li> <li>• Finger and Manual Dexterity</li> <li>• Form Perception</li> <li>• Motor Coordination</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 11th Grade Level</li> <li>• Good oral and written communication skills</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Able to manipulate fractions and decimals</li> <li>• Geometry</li> <li>• Linear measurement skills</li> <li>• Some trigonometry</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• Varies</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Minimal outside work</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 35 per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Bi-weekly tests</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team and independently to complete projects</li> <li>• Able to convert 2 dimensional drawings into 3 dimensional projects and vice versa</li> <li>• Good eye/hand coordination</li> <li>• Mechanical ability and enjoys working with hands</li> <li>• Mechanical drawing</li> </ul>

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**Program Information for:**  
**Sports Medicine/Rehabilitation Technician – CIP Code 51.0899 (WS)**  
 The following information is extremely important for you to know about this program.

- Motivate students to continue their education in fields such as athletic training, physical therapy, occupational therapy, sports medicine and other related fields.
- Performs a wide variety of duties with other professionals to aid in the successful treatment of patients.
- Strive to be a driving force on a professional healthcare team to deliver high-quality patient care.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Legal and Ethical Issues in Health Care</li> <li>• Communication in Health Care</li> <li>• Infection Control</li> <li>• Disaster Preparedness</li> <li>• Emergency Care and First Aid</li> <li>• Human Needs and Human Development</li> <li>• Moving, Lifting and Positioning</li> <li>• Healthcare Provider Skills</li> <li>• Nutrition and Hydration</li> <li>• Basic Structures and Functions of the Human Body &amp; Related Diseases with Associated Terminology</li> <li>• Death &amp; Dying</li> <li>• Medical Terminology</li> <li>• Sports Medicine and Rehabilitation</li> <li>• Certifications</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$350 approx.  <u>Certifications:</u> CPR (Healthcare Provider)- <b>\$40+, Cost Varies</b>  <u>Tools/Materials:</u> \$30 approx.  <u>Uniforms:</u> \$65 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u></p> <ul style="list-style-type: none"> <li>• Physical with lab testing (blood work) also Hepatitis series (3 step), Tuberculin test-PPD (2 step) required by PA Law and Dept. of Health- <b>varies</b></li> <li>• Criminal background check- <b>\$10</b></li> <li>• Drug screening completed 30 days <u>prior to going out on clinical</u>- <b>\$45</b></li> <li>• FBI Fingerprinting- <b>\$27.50</b></li> </ul>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Physical Therapy Aide</li> <li>• Occupational Aide</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• American Heart Association- Heartsaver AED</li> <li>• National Safety Council- Bloodborne &amp; Airborne Pathogens</li> <li>• American Heart Association- CPR</li> </ul>

**Skill Alignment Chart for:  
Sports Medicine/Rehabilitation Technician – CIP Code 51.0899**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Emotional and mental stability</li> <li>• Empathy to understand the pains and suffering of others</li> <li>• Good personal hygiene</li> <li>• Lift heavy objects/people</li> <li>• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations</li> <li>• Prolonged standing, bending, &amp; stooping</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• General learning</li> <li>• Manual &amp; finger dexterity</li> <li>• Verbal &amp; numerical</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12th grade to College level English</li> <li>• Excellent oral and written communication skills (excellent spelling skills)</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Conversions</li> <li>• Fractions, decimals, percent's &amp; ratios</li> <li>• Height/weight</li> <li>• Intermediate Algebra (College level)</li> <li>• Metric system</li> <li>• Roman numerals</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 4 hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 2-3 hours daily</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 20 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 5-8 tests a week including performance tests and academics</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Attention to detail extremely important</li> <li>• Basic computer and keyboarding skills</li> <li>• Demonstrate initiative, responsibility, and critical thinking skills</li> <li>• Excellent note taking and listening skills</li> <li>• Transportation for clinical</li> </ul>

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**Program Information for:  
Veterinary Assistant – CIP Code 51.0808 (WS)**

The following information is extremely important for you to know about this program.

- Experience the reward of caring for animals in a clinical setting.
- Practice customer service and professional ethics when interacting with patients, clients and coworkers.
- Actively participate in live surgical clinics weekly as part of a professional veterinary team.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Dilutions, Behavior, Restraint, Grooming, Sanitation and Dog Breed Project</li> <li>• Integumentary System, Medical Terminology, Medical Records and Nursing Care</li> <li>• Musculoskeletal System and Radiology</li> <li>• Circulatory and Respiratory Systems</li> <li>• Anesthesia and Surgery</li> <li>• Immune System, Disease, Canine &amp; Feline Vaccines, and Physical Exam</li> <li>• Laws, Ethics, and Pharmacology</li> <li>• Endocrine System, Renal System, and Urinalysis</li> <li>• Digestive, Nutrition, and Parasitology</li> <li>• Nervous and Sensory System</li> <li>• Reproduction and Breeding</li> <li>• Pocket Pets</li> <li>• Large Animal</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$150 approx.  <u>Certifications:</u> NAVTA certification- <b>\$100</b>  <u>Tools/Materials:</u> \$60 approx.  <u>Uniforms:</u> \$160 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00  <u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Animal Caretaker</li> <li>• Animal Intake Officer</li> <li>• Animal Trainer</li> <li>• Groomer Assistant</li> <li>• Kennel Assistant</li> <li>• Veterinary Assistant</li> <li>• Veterinary Receptionist</li> <li>• Groomer</li> <li>• Veterinary Technician (AAS)</li> <li>• Veterinary Technologist (BS)</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• Veterinary Nutritional Advocate</li> <li>• National Association of Veterinary Technicians in America-Approved Veterinary Assistant Certificate</li> </ul>

**Skill Alignment Chart for:  
Veterinary Assistant – CIP Code 51.0808**

**Willow Street Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Emotional and mental stability</li> <li>• Lift heavy objects/animals</li> <li>• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations</li> <li>• Prolonged standing, bending, &amp; stooping</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• General learning</li> <li>• Manual &amp; finger dexterity</li> <li>• Verbal &amp; numerical</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 12th grade to college level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Conversions (metric system)</li> <li>• Fractions, decimals, percentages, &amp; ratios</li> <li>• Long division</li> <li>• Roman numerals</li> <li>• Weight</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 3 hours daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 2 hours daily</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 50 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 3-4 tests a week</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team to complete projects</li> <li>• Attention to detail extremely important</li> <li>• Good attendance</li> <li>• Excellent communication and critical thinking skills</li> <li>• Excellent hygiene</li> <li>• Keyboarding skills</li> <li>• Love of animals</li> <li>• Transportation needed for clinical</li> </ul>

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**Program Information for:  
Welding Technology – CIP Code 48.0508 (MJ)**

The following information is extremely important for you to know about this program.

- Perform a wide range of welding processes using advanced welding techniques.
- Assemble and fabricate specialized metal products.
- Practice welds needed for weld certification, use modern power tools/equipment, and interpret fabrication blueprints.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Principles of Welding</li> <li>• Welding, Drawing, and Weld Symbol Interpretation</li> <li>• Visual Examination, Inspection, and Testing</li> <li>• Shielded Metal Arc Welding (SMAW)</li> <li>• Gas Metal Arc Welding (GMAW)</li> <li>• Flux Cored Arc Welding (FCAW)</li> <li>• Gas Tungsten Arc Welding (GTAW)</li> <li>• Manual Oxyfuel Gas Cutting (OFC)</li> <li>• Mechanized Oxyfuel Gas Cutting (OFC)</li> <li>• Manual Plasma Arc Cutting (PAC)</li> <li>• Manual Air Carbon Arc Cutting (CAC-A)</li> <li>• Brazing and Soldering</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$70 approx.</p> <p><u>Certifications:</u> AWS Membership and AWS Sense- <b>\$25 approx.</b></p> <p><u>Tools/Materials:</u> \$5 approx.</p> <p><u>Uniforms:</u> \$140 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$20.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Aerospace Industry</li> <li>• Equipment Repair &amp; Sales</li> <li>• Field Welder</li> <li>• Industrial Welder/Fabricator</li> <li>• Oxyacetylene/Plasma Cutter</li> <li>• Pipe Fitter –Welder</li> <li>• TIG/MIG/Electric Arc Welder</li> <li>• Underwater Repair &amp; Fabrication</li> <li>• Weld Inspector</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• American Welding Society: SENSE Certification- Level 1 Entry Welder</li> </ul>

**Skill Alignment Chart for:  
Welding Technology – CIP Code 48.0508**

**Mount Joy Campus**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around welding equipment, hand tools, power tools and other equipment found in the industry</li> <li>• Able to lift 50lbs</li> <li>• Ability to work independently, read and follow directions</li> <li>• Good eye/hand coordination</li> <li>• Stamina to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Finger and manual dexterity</li> <li>• Form perception</li> <li>• Motor coordination</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 10<sup>th</sup> Grade Level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Ability to read and use a ruler</li> <li>• Decimals</li> <li>• Fractions</li> <li>• Metric</li> <li>• Percent's</li> <li>• Weights/measurements</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• Approximately 2-5 hours per week</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• None/student's option</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 180 total for year</li> <li>• Work at own pace - daily</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Work at own pace/graded on 35 units – plus reviews</li> <li>• Math</li> <li>• Blueprints</li> </ul>
<b>POS Academics</b>	<ul style="list-style-type: none"> <li>• College level Public Speaking is a component of the LCCTC program</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work with a team and independently to complete projects</li> <li>• Able to convert 2 dimensional drawings into 3 dimensional projects</li> <li>• Basic computer skills</li> <li>• Mechanical drawing</li> </ul>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.

**Program Information for:  
Construction Cluster – CIP Code 46.0201(BT/MJ/WS)**

The following information is extremely important for you to know about this program.

- Experience the basic construction trades.
- Operate professional hand and power tools.
- Perform basic carpentry, masonry, plumbing, and electrical skills and more!

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Tool Safety</li> <li>• Lumber and Wood</li> <li>• Introduction to Carpentry- Floor</li> <li>• Introduction to Carpentry- Wall</li> <li>• Introduction to Carpentry- Roof</li> <li>• Introduction to Carpentry- Exterior</li> <li>• Introduction to Plumbing- Tools</li> <li>• Introduction to Plumbing- Systems</li> <li>• Introduction to Plumbing- Residential</li> <li>• Introduction to Masonry- Tools</li> <li>• Introduction to Masonry- Block</li> <li>• Introduction to Masonry- Brick</li> <li>• Introduction to Masonry- Concrete</li> <li>• Introduction to Painting- Exterior</li> <li>• Introduction to Painting- Interior</li> <li>• Introduction to Electric- Tools</li> <li>• Introduction to Residential Electric- Wiring Basics</li> <li>• Introduction to HVAC</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Provided by the instructor.</p> <p><u>Certifications:</u> OSHA- <b>\$25</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$10.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Carpenter</li> <li>• Electrician</li> <li>• Landscaper</li> <li>• Mason</li> <li>• Painter</li> <li>• Plumber</li> <li>• HVAC Technician</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• NCCER Construction Technology</li> </ul> <p style="text-align: center;"><b><u>Full Day Program Articulations</u></b></p> <ul style="list-style-type: none"> <li>• HVAC/R</li> <li>• Commercial Construction</li> <li>• Residential Carpentry</li> <li>• Electrical Construction Technology</li> <li>• Plumbing</li> <li>• Architectural CAD</li> <li>• Painting/Ceramic Tile and Vinyl</li> <li>• Heavy Equipment Operation</li> </ul>

**Skill Alignment Chart for:  
Construction Cluster – CIP Code 46.0201**

**Brownstown/Mount Joy/Willow Street Campuses  
Half-Day Program for Juniors**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to lift 50 lbs overhead</li> <li>• Ability to work in all weather conditions</li> <li>• Ability to work independently</li> <li>• Good eye/hand coordination</li> <li>• No fear of heights or working in closed spaces</li> <li>• Physical strength and stamina</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Color discrimination</li> <li>• Finger dexterity</li> <li>• Form perception</li> <li>• Manual dexterity</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 9<sup>th</sup> grade or higher</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic Geometry</li> <li>• Basic math skills</li> <li>• Fractions</li> <li>• Measurement skills</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• ½ hour daily</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 5-10 per marking period (depends on trade area)</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 4 to 5 per marking period</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Able to use a ruler</li> <li>• Able to work with fractions, decimals, also able to compute ratio, rate, percent's, area and volume</li> <li>• Excellent hand/eye coordination</li> <li>• Good attendance</li> <li>• Good physical health (able to lift 50 lbs. to a height of 40inches)</li> <li>• Good sense of balance</li> <li>• Good technical writing skills</li> <li>• No fear of heights</li> <li>• Stamina (able to stand for long periods of time)</li> </ul>

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**Program Information for:  
Culinary Cluster – CIP Code 12.0508(BT/MJ/WS)**

The following information is extremely important for you to know about this program.

- Create desserts from traditional recipes such as cookies and cheesecakes to pastries with artistic presentation.
- Experience the latest trends in food preparation such as Asian cuisine, barbecue, and vegetarian dishes as well as traditional cuisine.
- Plan, prepare, and serve meals for special events.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Safety &amp; Sanitation</li> <li>• Equipment</li> <li>• Baking</li> <li>• Garde Manger</li> <li>• Soups, Stocks, and Sauces</li> <li>• Short Order Cooking</li> <li>• Cooking Methods</li> <li>• Management Techniques</li> <li>• Customer Service</li> <li>• Kitchen Calculations</li> <li>• Events</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Provided by the instructor.</p> <p><u>Certifications:</u> OSHA- <b>\$25</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$70 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$10.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Baker</li> <li>• Host/Hostess/Server</li> <li>• Cook/Chef</li> <li>• Institutional Food Worker</li> <li>• Food Service Manager</li> <li>• Meat Cutter/Food Processor</li> <li>• Front Desk &amp; Hotel Reservations Clerk</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• OSHA</li> </ul> <p style="text-align: center;"><b><u>Full Day Program Articulations</u></b></p> <ul style="list-style-type: none"> <li>• Culinary Arts/Chef</li> <li>• Baking &amp; Pastry Arts</li> <li>• Event Planning &amp; Tourism Services Management</li> </ul>

**Skill Alignment Chart for:  
Culinary Cluster – CIP Code 12.0508**

**Brownstown/Mount Joy/Willow Street Campuses  
Half-Day Program for Juniors**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around kitchen equipment, knives, and other tools and equipment found in the industry</li> <li>• Ability to work in a fast-paced environment</li> <li>• Good personal hygiene</li> <li>• Stamina needed to stand for long periods of time</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Eye/hand coordination</li> <li>• Fine motor</li> <li>• Form perception</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• Text is 10<sup>th</sup> grade to college level</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Fractions</li> <li>• Liquid and dry measurements</li> <li>• Percent's</li> <li>• Volume</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 20-30 minutes per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Weekly</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 15-20 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 6 per marking period</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to lift up to 30 lbs</li> <li>• Able to work at a fast pace</li> <li>• Ability to work independently and with a small group</li> <li>• Able to work with fractions, decimals, also able to compute ratio, rate, percent's, area and volume</li> <li>• Excellent hand/eye coordination</li> <li>• Excellent hygiene</li> <li>• Good attendance</li> <li>• No acrylic nails</li> <li>• No jewelry allowed including piercings</li> <li>• No nail polish</li> <li>• Stamina (able to stand for long periods of time)</li> <li>• Stomach to work with raw food</li> </ul>

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**Program Information for:  
Health Care Cluster – CIP Code 51.0899(BT/MJ/WS)**

The following information is extremely important for you to know about this program.

- Perform a wide range of medical skills in various health care careers.
- Use medical equipment in exploring the human body.
- Practice ethical standard, confidentiality, leadership and professionalism when interacting with patients, clients, and co- workers.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• History of Health Care</li> <li>• Health Care Team</li> <li>• Ethics</li> <li>• Legal Aspects</li> <li>• Health Care Career Search</li> <li>• Qualities of Health Care Worker</li> <li>• Communication</li> <li>• 24-Hour Clock</li> <li>• Intro to Medical Terminology</li> <li>• Medical Terminology with A&amp;P</li> <li>• Emergency Care</li> <li>• Client Assessment</li> <li>• Bedside Care Skills</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> \$134 approx.</p> <p><u>Certifications:</u> BLS for Health Care Providers- <b>\$7</b>, Heartsaver First Aid- <b>\$5</b>, OSHA- <b>\$25</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$75 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$10.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Certified Nursing Assistant/Home Health Aide</li> <li>• Dental Assistant</li> <li>• Medical Assistant</li> <li>• Health Information Manager</li> <li>• Clinical Care Assistant</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• American Heart Association- BLS Healthcare Provider</li> <li>• Heartsaver First Aid</li> <li>• OSHA</li> </ul> <p style="text-align: center;"><b><u>Full Day Program Articulations</u></b></p> <ul style="list-style-type: none"> <li>• Advanced Health Careers</li> <li>• Nursing Assistant</li> <li>• Medical Assistant</li> <li>• Medical Administrative Assistant</li> <li>• Clinical Care Assistant</li> <li>• Dental Assistant</li> </ul>

**Skill Alignment Chart for:  
Health Care Cluster – CIP Code 51.0899**

**Brownstown/Mount Joy/Willow Street Campuses  
Half-Day Program for Juniors**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Health related class recommended</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Clerical perception</li> <li>• Color discrimination</li> <li>• Finger dexterity</li> <li>• Manual dexterity</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 8<sup>th</sup> grade or higher</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Decimals, fractions, percent's - example: kilo to pounds-conversions</li> <li>• Multiplication</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 30-60 minutes per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• 30-60 minutes per day</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Up to 8 per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Up to 5 per week</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Attention to detail extremely important</li> <li>• Basic computer and keyboarding skills</li> <li>• Demonstrate initiative, teamwork, cooperation, and responsibility</li> <li>• Good attendance</li> <li>• Good customer service skills</li> <li>• Good time management, memorization and test taking skills</li> <li>• Excellent oral and written communication skills</li> <li>• Public speaking</li> <li>• Spelling, critical thinking, and note taking skills</li> <li>• Stamina (able to stand for long periods of time)</li> <li>• Willingness to study outside of class</li> </ul>

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**Program Information for:  
Manufacturing Cluster – CIP Code 48.0508(BT/MJ/WS)**

The following information is extremely important for you to know about this program.

- Fabricate and build custom metal projects.
- Operate the same welding and cutting equipment as industry professionals.
- Design, invent and develop electrical and robotic systems!

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Band Saw</li> <li>• Drill Press</li> <li>• CNC Milling Machine Estimated Total Hours of Instruction</li> <li>• Pedestal Grinder</li> <li>• Industrial Electricity</li> <li>• Basic Robot Programming</li> <li>• Mechatronics Independent Projects</li> <li>• 11 Hand Tools</li> <li>• Hand Held Power Tools</li> <li>• Hand and Operated Forming Tools</li> <li>• Power Operated Forming Tools</li> <li>• Principles of Layout</li> <li>• Shop Projects</li> <li>• Shielded Metal Arc Welding (SMAW)</li> <li>• Gas Metal Arc Welding (GMAW)</li> <li>• Gas Tungsten Arc Welding (GTAW)</li> <li>• Manual Oxyfuel Gas Curring (OFC)</li> <li>• Oxyfuel Welding</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Provided by instructor</p> <p><u>Certifications:</u> OSHA- <b>\$25</b></p> <p><u>Tools/Materials:</u> \$40 approx.</p> <p><u>Uniforms:</u> \$80 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$10.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Industrial Maintenance Technician</li> <li>• Sheet Metal Worker</li> <li>• Welder</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• OSHA</li> </ul> <p style="text-align: center;"><b><u>Full Day Program Articulations</u></b></p> <ul style="list-style-type: none"> <li>• Sheet Metal Technology</li> <li>• Welding Technology</li> <li>• Electro-Mechanical Engineering Technology</li> <li>• Precision Machining &amp; Computer-Aided Manufacturing</li> <li>• Cabinetmaking &amp; Wood Technology</li> </ul>

**Skill Alignment Chart for:  
Manufacturing Cluster – CIP Code 48.0508**

**Brownstown/Mount Joy/Willow Street Campuses  
Half-Day Program for Juniors**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Ability to function in noisy and dirty environment</li> <li>• Ability to understand and follow safety procedures</li> <li>• Ability to work independently, read and follow directions</li> <li>• Able to lift 50 lbs. to a height of 40 inches</li> <li>• Blueprint reading skill recommended</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Form perception</li> <li>• Manual dexterity</li> <li>• Numerical aptitude</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 10<sup>th</sup> grade</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math and geometry</li> <li>• Fractions, Decimals, Percent's</li> <li>• Good measurement skills</li> <li>• Metric system</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 20 minutes per day or 1 hour 2 times per week</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• None -1 chapter per week done at CTC</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• Approximately 10 tasks per marking period</li> <li>• \$40 covers materials for program</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• 2 times weekly</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to work independently and with a small group</li> <li>• Able to use a ruler</li> <li>• Able to work with fractions, decimals, also able to compute ratio, rate, percent's, area and volume</li> <li>• Excellent hand/eye coordination</li> <li>• Good oral and written communication skills</li> <li>• Good technical writing skills</li> <li>• Logical, step by step thinking required</li> <li>• Stamina (able to stand for long periods of time)</li> <li>• Tech Ed or shop class at high school recommended</li> </ul>

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**Program Information for:  
Transportation Cluster – CIP Code 47.0604 (BT/MJ/WS)**

The following information is extremely important for you to know about this program.

- Develop the skills to diagnose and troubleshoot today’s hi-tech vehicles and equipment.
- Explore and experience the operating systems and repair procedures for a wide range of vehicles.
- Interact with trade professionals from the transportation industry.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Proper Shop Equipment Usage and Practices</li> <li>• Fasteners and Gaskets</li> <li>• Engine Repair</li> <li>• Fuel Systems</li> <li>• Electrical and Electrical Systems</li> <li>• Drive Systems and Transmissions</li> <li>• Cooling System</li> <li>• Tires</li> <li>• Brakes</li> <li>• Suspension and Steering Systems</li> <li>• Safety Inspection</li> <li>• Preventive Maintenance</li> <li>• Automobile Engines</li> <li>• Small Engines</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Provided by instructor</p> <p><u>Certifications:</u> First Aid Certification- <b>\$6.50 approx.</b>, Valvoline Oil- <b>Free</b>, Yamaha YTA Bronze- <b>Free (varies by campus)</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$60 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$10.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Auto Mechanic</li> <li>• Collision Repair Worker</li> <li>• Diesel Mechanic</li> <li>• Heavy Equipment Operator/Mechanic</li> <li>• Parts Salesperson</li> <li>• RV Mechanic</li> <li>• Small Engine Mechanic</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• First Aid Certification</li> <li>• Valvoline Oil</li> <li>• Yamaha YTA Bronze</li> </ul> <p style="text-align: center;"><b><u>Full Day Program Articulations</u></b></p> <ul style="list-style-type: none"> <li>• Automotive Technology</li> <li>• Automotive Mechanics</li> <li>• Collision Repair</li> <li>• Diesel Equipment Technology</li> <li>• RV &amp; Outdoor Power Equipment</li> </ul>

**Skill Alignment Chart for:  
Transportation Cluster – CIP Code 47.0604**

**Brownstown/Mount Joy/Willow Street Campuses  
Half-Day Program for Juniors**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• Enthusiasm</li> <li>• Good attendance</li> <li>• Good grade point average</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Finger dexterity</li> <li>• Form perception</li> <li>• Manual dexterity</li> <li>• Reasoning</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 11th-12th grade</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Decimals</li> <li>• Fractions</li> <li>• Metric system</li> <li>• Percent's</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 30 minutes per day</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Occasional</li> </ul>
<b>Tasks</b>	<ul style="list-style-type: none"> <li>• 40 tasks per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Weekly tests or quizzes</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to follow oral and written communications</li> <li>• Ability to work with a team to complete projects</li> <li>• Able to work with fractions, decimals, weights and measures</li> <li>• Basic computer skills</li> <li>• Good attendance</li> <li>• Good oral and written communication skills</li> </ul>

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**Program Information for:  
Visual Communications Cluster – CIP Codes 10.0399 & 50.0402 (BT/WS)**

The following information is extremely important for you to know about this program.

- Experience drawing, computer graphics, and photography to deliver powerful visual arts.
- Capture photographs with current digital cameras.
- Create and design reproductions utilizing the same hardware and design software as professional graphic artists and commercial printers.

<p style="text-align: center;"><b><u>Curriculum Outline</u></b></p> <ul style="list-style-type: none"> <li>• Graphic Design</li> <li>• Photography</li> <li>• Digital Publishing</li> <li>• Press Operations</li> <li>• Digital Image Manipulation</li> <li>• Digital Illustration</li> <li>• Multi-Media</li> </ul>	<p style="text-align: center;"><b><u>Program Costs</u></b></p> <p><u>Textbooks:</u> Provided by instructor</p> <p><u>Certifications:</u> First Aid Certification- <b>\$6.50 approx.</b></p> <p><u>Tools/Materials:</u> Additional information in new student letter.</p> <p><u>Uniforms:</u> \$60 approx.</p> <ul style="list-style-type: none"> <li>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</li> </ul> <p><u>CTSO Fee:</u> \$10.00</p> <p><u>Clearances:</u> None</p>
<p style="text-align: center;"><b><u>Career Pathways</u></b></p> <ul style="list-style-type: none"> <li>• Bindery Worker</li> <li>• Commercial Designer</li> <li>• Layout &amp; Design Assistant</li> <li>• Press Operator</li> <li>• Photographer</li> <li>• Desktop Operator Assistant</li> </ul>	<p style="text-align: center;"><b><u>Program Opportunities</u></b></p> <ul style="list-style-type: none"> <li>• First Aid Certification</li> </ul> <p style="text-align: center;"><b><u>Full Day Program Articulations</u></b></p> <ul style="list-style-type: none"> <li>• Commercial Art</li> <li>• Computer Systems Technology</li> <li>• Digital Design/Print Media</li> <li>• Photography &amp; Digital Imaging</li> <li>• Commercial Art</li> </ul>

**Skill Alignment Chart for:  
Visual Communications Cluster – CIP Codes 50.0402**

**Brownstown/Willow Street Campuses Half-Day Program  
for Juniors**

Educational & Physical Attributes	Expectations
<b>Program Safety &amp; Physical Considerations</b>	<ul style="list-style-type: none"> <li>• A focus on safety around moving equipment</li> <li>• Color Vision</li> <li>• Depth perception</li> <li>• Good manual dexterity</li> <li>• Stamina including focus at work station for long periods of time including standing or sitting for long periods of time</li> <li>• Visual acuity</li> </ul>
<b>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</b>	Scores of average or above on: <ul style="list-style-type: none"> <li>• Color discrimination</li> <li>• Finger dexterity</li> <li>• Form perception</li> <li>• Spatial</li> </ul>
<b>Reading &amp; Language Arts Levels</b>	<ul style="list-style-type: none"> <li>• 10th – 12th grade</li> </ul>
<b>Math Levels</b>	<ul style="list-style-type: none"> <li>• Basic math</li> <li>• Decimals</li> <li>• Fractions</li> <li>• Measurement</li> <li>• Multiplication</li> </ul>
<b>Lecture Time</b>	<ul style="list-style-type: none"> <li>• 45-60 minutes per week</li> </ul>
<b>Homework</b>	<ul style="list-style-type: none"> <li>• Occasional homework assigned</li> </ul>
<b>Tasks Per Week</b>	<ul style="list-style-type: none"> <li>• 8-12 projects per marking period</li> </ul>
<b>Tests</b>	<ul style="list-style-type: none"> <li>• Average 4 per marking period</li> <li>• Tests are both written/computer</li> </ul>
<b>Study &amp; Other Skills</b>	<ul style="list-style-type: none"> <li>• Ability to sit and work for long periods of time</li> <li>• Ability to work with a team to complete projects</li> <li>• Attention to detail extremely important</li> <li>• Art and graphics classes</li> <li>• Drafting</li> <li>• Excellent measurement , spelling and writing skills</li> <li>• Good attendance</li> <li>• Good eye for color and proportion</li> <li>• Good keyboarding skills</li> <li>• Manipulation of fractions, decimals, and ability to use percentages and proportions</li> </ul>

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