Program Information & Skill Alignment Chart for:
Cabinetmaking & Wood Technology – CIP Code 48.0703
Brownstown Campus

Form to be submitted to IU 13 with PIF

<table>
<tr><td>Program Description</td><td colspan="2">

Interact with cabinetry industry experts.
Develop skills and knowledge needed to build and construct modern cabinetry.
Design/ list bill of materials/ and construct cabinetry/ furniture for homes and business.

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<tr><td>Program Information (costs, certifications, uniform)</td><td colspan="2">
Textbooks- (Provided to Students):

Electronic copy on CANVAS online.

Uniforms- $55 (approximate) Students are required to be in uniform daily.
(Students will need to purchase multiple pairs of pants/shirts to comply with uniform cleanliness standards)

Red CTC logo T-shirts and Sweatshirts (link to online store can be found on the school website)
Blue Dickies/ Cartwright style work pants
Leather safety work boots, steel toes are NOT necessary
Ear protection provided (students may choose to supply own based on personal preference)

Program Opportunities/Certifications

OSHA 10hr
Cabinetry Industry Certification

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<tr><td>Program Outline & Pathways</td><td>
Approved Program Task List:

Safety
Hand Tools
Power Tools
Blueprint Reading
National guidelines
Career Readiness

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Careers Pathways:

Commercial/Industrial Cabinet maker, AD
Distributor Salesperson, AD
Countertop/Laminate builder, OJT
Residential Cabinet Contractor, BD
Finisher/ Finishing, OJT
Installer, OJT
Computer/ Blueprints, AD
Sander, OJT
CNC computer/ machine programmer, AD
Furniture maker/repair, OJT

*OJT- On-the-Job Training, AD- Associates Degree, PS-Post-Secondary, BD- Bachelor’s Degree, WK EXP-Work Experience

Post-Secondary and Continuing Education Options:

Local or State Colleges (Ex: Thaddeus Stevens, Penn College of Technology, HACC)

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<tr><td>Other Information</td><td colspan="2">

Student to teacher ratio is 25:1

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Student Name: _____ District: _____

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Educational and Physical Attributes	Program Expectations	Present Education Level and Current Supports
Program Safety / Physical Considerations	• Ability to lift 50lbs overhead. • Ability to wear and maintain proper PPE at all times • Ability to climb and descend ladders. • No fear of heights • No fear of tight or confined spaces • No fear of Power equipment; both hand & stationary • Above average hand/eye coordination as will be using hand and power tools. • Average fine motor skills • Ability to work individually • Ability to self-advocate • Be able to work in all conditions (example: Cold-Hot, Clean-Dusty/Dirty/ High Noise) • Ability to work with chemicals.	
Action/Need:		
Program Environment Indoor/outdoor Dust/dirt/fume/noise etc. Layout of room – theory/lab	<u>Classroom</u> • Lab & theory areas are together • Lab simulates industry shop • Lab is in 2 sections • Requires travel to House Project • Noise level HIGH with indoor power equipment-drilling, sawing, and hammering, heard in theory area as areas are combined. • Individual assignments can be both written and hands-on • PPE is required at all times in the lab areas <u>Industry</u> • Work in all weather conditions. • Dusty, dirty and noisy environments • Heights required from ladders, installing of cabinets, and reaching stock material. • Required to apply tasks individually under heavy time constraints.	

Action/Need:		
Typical level of support	At CTC, we have itinerant IU13 support teachers and paraeducators. In the itinerant model, the support teachers have multiple programs and provide check-ins during the day. The itinerant model does not include co-taught classes where teachers are in classes for extended periods of time. IU13 paraeducators also support several teachers, spreading out their day between multiple programs. The learning center is available at scheduled times for testing accommodations, study/instructional groups, and work completion support. Since time there takes away from lab time, students are encouraged to use it strategically.	
Action/Need:		
Reading / ELA Levels: *Examples:*	• 12th grade to Early College Reading Level • Read and Comprehend Textbooks Independently and Proficiently • Follow Multi-Step Procedures • Summarize Text and Instruction to Notebooks and Tasks • Independently Read and Interpret Text for Hands-on Task Information • Interpret Blueprint Text and Symbols • Understand Conceptual Vocabulary • Explain and Perform Ideas from Text	
Action/Need:		
Writing Levels: *Examples*	• Legible Handwriting • Write a Daily Work Log for Completion • Provide Clear and Coherent Writing	

	• Complete Work Orders and Inventories to Simulate Industry Requirements • Have Basic Sentence Structure Skills • Create a Resume', Cover Letter and Reference Page • Technology Discussions and Posts when assigned. • Summarize Lessons and Readings to apply in assignments.	
Action/Need:		
Math Levels: *Examples:* Estimate the cost of the supplies to the nearest whole dollar. 20 board feet of wood for shelves - $10 each 1 ½ sheets of plywood for backer - $60 per sheet 1 qt. stain – $10.50 per quart 1 qt. of polyurethane – $18.90 per quart 8 - 6' long upright shelving brackets at $ 8.50 each 16 – shelving bracket clips at $1.95 each. Linear Equation: Materials + Mark up on materials at 80% = 449 x 1.8 = $808.20 (100% + 80% = 180% in decimal format is 1.80.) Estimate about 80 ½ labor hours in this project at $40 per hour. (80.5 x $40 = $ 3,220.00) 808.00 + $ 3,220.00 = $ 4,028.00 The total estimated cost of this project is $4,028.00	<u>Construction Math</u> • Fluency in Operations with Whole Numbers and Decimals (Grade 6) • Geometry (angles, proportion, basic shapes, scale models, ratios and drawing concepts) (Grade 7) • Fraction Computations (Grade 6) • Whole Number Exponents (Grade 6) • Fraction to Decimal Convert (Grade 7) • Percent and Ratio Problem (Grade 7) • Decimal to Fraction Convert (Grade 8) • Problem Solving with Units/Conversions <u>Measurement</u> • English/Metric Units: Accuracy to Nearest 1/16 inch or mm • Standard reading of Ruler/Tape Measure • Unit Conversions (Grade 6) • Ability to work with math and fractions/tape measure reading.	
Action/Need:		
Theory time	<u>Up to 2 hours/day (Morning/Afternoon Session)</u> • PowerPoint Presentations/ videos • Structured Notes • Review Questions • Chapter Reading • Lab book Assignments • Demonstrations • Vocabulary • Daily Timesheet	

	• Summative/Formative Assessments	
Action/Need:		
Homework *Amount per night*	• Minimal, IF not completed during dedicated class time • Book/chapter Review Questions • Vocabulary Words • Lab book per chapter • Guided Notes, Study Guide	
Action/Need:		
Lab Time *Guided vs Independent Work*	<u>Up to 4 hours/day (Morning/Afternoon Session)</u> • Apply Class Teachings to Hands-On • Expectation is approximately 15-25 new tasks per marking period depending on module or session being covered. • Required to Stay Current with Class	
Action/Need:		
Tests *NOCTI testing – Y/N* *Frequency of tests/quizzes*	• Testing every 3 to 4 days on equipment/ parts information • Quizzes/Small Assessments weekly • Vocabulary Knowledge • Formative/Summative Assessments • NOCTI testing (Pretest, Written and Hands-on)	
Action/Need:		
Behavioral Expectations *Executive Function* *Organizational skills*	• Safety conscious, MUST wear PPE • Ability to Work Independently • Time Management Skills • Active Listening and Learning • Self-Advocating • Priority on Attendance • Attention to Detail	

	• Critical Thinking Skills • Problem Solving • Respect of all Peers and Staff • Completion of Tasks with Minimal Supervision, prioritizing responsibilities	
Action/Need:		
Other *Technology skills specific to the program.* *Additional skills that are valuable for program success.*	<u>Technology Based Instruction</u> • Use and Navigate School-Issued Laptop • Email Management • Internet Usage Following Guidelines • Use and Navigate Learning Management Software • Teams Meeting as Required • Artistic talent & drawing ability • Ability to visualize & think abstractly when necessary • Ability to attend Virtually, in the event a virtual instructional day is enacted	
Action/Need:		

*District Representative Signature*_____ *Date* _____