

PROGRAM: **Carpentry**

**PROGRAM
CIP CODE:** **46.0400.30**

DESCRIPTION: The **Carpentry** program is designed to prepare individuals to apply technical knowledge and skills in the building industry which include units of instruction in safety, hand and power tools, foundations, floor, wall, ceiling and roof framing. Individuals will develop skills in blueprint reading and use technical mathematics in job estimating. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience and leadership and personal development through the Career and Technical Student Organization, SkillsUSA.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

**Career
Preparation** The following describes the recommended courses developed from industry-validated skills necessary for initial employment or continued related education.

46.0400.10 **Construction Technologies Core Curriculum:**
This foundation course will prepare students to use a wide variety of construction tools and equipment and maintain a safe work environment. The student will develop an understanding of construction math, financial operations, reading blueprints, basic rigging and basic construction techniques. The student will develop skills in oral and written communication as they relate to the construction industry. This course is designed to help students develop an enhanced understanding of teamwork, employability skills and career opportunities in the construction field.

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46.0400.30 **Carpentry:** This course prepares the individual to apply and demonstrate advanced technical knowledge and skills to layout, cut, fabricate, erect, install and repair wooden structures and fixtures using hand and power tools. Includes instruction in technical mathematics, safety, framing, construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finish carpentry techniques and applicable codes and standards.

And program may elect to add:

46.0400.75 **Construction Technologies - Internship:** This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Construction Technologies knowledge and skills.

-and-

46.0400.80 **Construction Technologies - Cooperative Education:** This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences, directly related to the standards identified for the Construction Technologies program.

TEACHER CERTIFICATION REQUIREMENTS FOR THE CARPENTRY PROGRAM

CAREER PREPARATION: The instructor must be CTE certified according to the following table

Carpentry	CERTIFICATES
	Types: PCTI, PCTIEP, SCTI, SCTIEP
Note:	
<ul style="list-style-type: none"> ▪ Construction Technologies 46.0400.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 46.0400.75 is not required to have a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 46.0400.80 is required to have a Cooperative Education Endorsement (CEN). 	

CERTIFICATE ABBREVIATIONS FOR THE CARPENTRY PROGRAM

Certificate Types	
PCTI	Provisional Career and Technical Education Industrial Technology
PCTIEP	Provisional Career and Technical Education Industrial and Emerging Technologies
SCTI	Standard Career and Technical Education Industrial Technology
SCTIEP	Standard Career and Technical Education Industrial and Emerging Technologies