

Standards and Competencies for Carpentry II (Course # 5732)

	Begin-End Yr
Standard 1 - Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.	2009 -
1.1 - Demonstrate leadership skills.	2009 -
1.2 - Use problem-solving techniques to address and propose solutions to school, community, and workplace problems.	2009 -
1.3 - Demonstrate the ability to work professionally with others	2009 -
1.4 - Participate in SkillsUSA as an integral part of instruction	2009 -
1.5 - Exhibit integrity and pride in artisanship	2009 -
Standard 2 - Students will assume responsibility for the safety of themselves, their coworkers, and bystanders	2009 -
2.1 - Exhibit and encourage in others a positive attitude regarding safety practices and issues	2009 -
2.2 - Habitually inspect and use appropriate personal protective equipment for assigned tasks	2009 -
2.3 - Inspect, maintain, and employ safe operating procedures with tools and equipment, such as scaffolding, lifting equipment, and air-powered drivers.	2009 -
2.4 - Exhibit a well-developed awareness of potential hazards to self and others	2009 -
2.5 - Carry out responsibilities under HazCom (Hazard Communication) regulations	2009 -
2.6 - Take action to protect coworkers and bystanders from hazards as required by regulations and company policies.	2009 -
2.7 - Report accidents and observed hazards and execute emergency response procedures as required by regulations and company policies.	2009 -
2.8 - Demonstrate appropriate construction-related safety procedures.	2009 -
2.9 - Pass with 100 percent accuracy a written examination relating to safety issues	2009 -
2.10 - Pass with 100percent accuracy a performance examination relating to safety	2009 -
2.11 - Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.	2009 -
Standard 3 - Students will interpret, layout, and fabricate in conformance to construction drawings and written specifications	2009 -
3.1 - Scale dimensions that are not explicitly included in construction drawings	2009 -
3.2 - Interpret plan and elevation views shown in construction drawings	2009 -
3.3 - Recognize and interpret lines and symbols commonly used in construction drawings	2009 -
Standard 4 - Students will install windows and doors in residential and commercial structures	2009 -
4.1 - Compare and contrast various types of windows and doors used in residential and commercial structures	2009 -
4.2 - Comprehend and interpret fire rating information on the door schedule included in construction plans	2009 -
4.3 - Install interior and exterior pre-hung doors, with weather-stripping and locksets where applicable	2009 -
4.4 - Install pre-hung windows.	2009 -
Standard 5 - Students will explore the geometry and methods of fabrication of stairs	2009 -
5.1 - Compare and contrast various types of stair construction used in residential and commercial structures	2009 -
5.2 - Determine unit rise and unit run, and compare to appropriate building code standards	2009 -
5.3 - Interpret construction drawings of stairs.	2009 -
5.4 - Construct all or part of a stair, based on construction drawings.	2009 -
Standard 6 - Students will install, finish, and repair gypsum wallboard	2009 -
6.1 - Compare and contrast the various types and uses of gypsum wallboard.	2009 -
6.2 - Installs gypsum wallboard using proper fasteners	2009 -
6.3 - Finish a gypsum wallboard installation.	2009 -
6.4 - Repair a damaged gypsum wallboard.	2009 -
Standard 7 - Students will install trim on doors, windows, and other features	2009 -
7.1 - Differentiates between common types of molding and their typical uses	2009 -
7.2 - Install trim on doors, windows, and other features.	2009 -
Standard 8 - Students will perform site layouts with radial measurements	2009 -
8.1 - Make site plan layouts using distance and radial measurement techniques	2009 -
8.2 - Measure and lay out elevations and grades.	2009 -
8.3 - Measure vertical and horizontal angles using transits or theodolites	2009 -
Standard 9 - Students will complete exterior finish work on residential and commercial structures	2009 -
9.1 - Use equipment and procedures to mitigate hazards unique to exterior finish work	2009 -
9.2 - Continually assess wind and weather conditions, as they affect the safety of worker, and mitigate risks where possible.	2009 -
9.3 - Correctly install flashing and other waterproofing components, as detailed in construction drawings and specifications.	2009 -
9.4 - Correctly install selected common cortices.	2009 -
9.5 - Correctly install selected common wood sidings.	2009 -
9.6 - Correctly install selected manufactured product sidings	2009 -
9.7 - Correctly install selected types of gutters and downspouts.	2009 -
Standard 10 - Students will describe the need for and methods of achieving thermal and moisture protection	2009 -
10.1 - Calculate R-values for specified wall designs.	2009 -
10.2 - Describe the need for and typical methods for implementing attic ventilation	2009 -
10.3 - Describe the need for and typical methods for providing vapor barriers on floors, walls, ceilings, and roofs	2009 -
10.4 - Install insulation, vapor barriers, and house wraps.	2009 -

Standard 11 - Students will demonstrate communication skills required in the carpentry and construction industry	2009 -
11.1 - Communicate and comprehend oral and written information pertaining to carpentry	2009 -
11.2 - Solve problems and make decisions using critical thinking process	2009 -
11.3 - Use teamwork skills and a logical thinking process to solve problems relating to issues.	2009 -
11.4 - Will create pre-employment materials for prospective employer	2009 -
Standard 12 - Students will utilize carpentry knowledge and skills to apply in a work-based or school project learning experience	2009 -
12.1 - Apply principles of carpentry and construction to work-based or school project-based learning situations	2009 -
12.2 - Integrate time management principles in organizing personal schedule to include school, work, social, and other activities.	2009 -
12.3 - Evaluate and apply principles of ethics as they relate to the work-based or school project-based learning experience.	2009 -
12.4 - Employ principles of safety to the work-based or school project-based learning experience	2009 -