

2021-2022 Construction Trades Success Indicators

Academic Skills

Reading	Use of <i>Carpentry & Building Construction</i> textbook with terms associated with construction. Grade level reading ability recommended.
Writing	Frequent writing such as journal topics, questions in back of chapter, ability to write contracts for homeowners, correctly fill out building permits; must also be able to conduct research on a given topic
Math	Ability to add and subtract fractions, measure, convert decimals to fractions, determine the quantity of board feet, estimate materials for a job, calculate simple interest, work with feet and inches, calculate area; use of algebraic and geometric equations in calculating the length of rafters, squaring walls, and calculating the length of stairways.
Science	Basic knowledge of common soil types in association with basements and excavation. Understand the basic building science of construction.
Memorization/Notetaking	Ability to memorize terms associated with construction and techniques used in the construction field. Must be able to take accurate notes, as each topic covered relies on the previous topics.

Physical Skills

Physical Requirements	Must be able to lift 50 lbs. for moving materials around shop, standing walls, lifting bundles of shingles onto roof, etc. Also, segments of the curriculum require climbing.
Clothing/Special Equipment	Proper footwear is required in the construction field; possibility of working outside, so appropriate clothes (warm) are necessary; tool pouch and basic hand tools are provided for student use; safety glasses must be worn
Fine Motor Skills/Coordination	Must be able to provide quality work with attention to detail, and possess good hand/eye coordination for driving nails and installing screws.
Spatial Awareness	Ability to read and interpret blueprints. Ability to measure and transfer measurements onto material.

Other Requirements

Medical Requirements	Must be a healthy, physically-fit individual with the ability to work in all weather conditions, tolerate heights, work in tight spaces, and lift heavy materials.
Related Interests	Any interests in carpentry, masonry, construction, heavy equipment operation, electrical, plumbing, heating and cooling
Transportation	N/A
Certification/Licensure	10-hour OSHA Construction Certification card
Homework	Make-up work and at-home assignments
Classroom Instructional Methods/Time	Lecture and PowerPoint presentations; significant time spent in shop completing class projects

Additional Information

A demonstrated pattern of regular attendance is critical to student success. This class is strongly oriented as a hands-on program.

Maturity necessary for safety when working with dangerous machinery. Also, maturity level to work unsupervised and finish tasks.

Understanding of safety issues is essential and will be emphasized; students must pass OSHA 10-hour construction industry safety course.

Students must work in a cooperative manner with other students and function as part of a team.

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