

Construction Framing & Finishing Technologies

greatoaks.com/construction



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Available at: Diamond, Scarlet

COURSES

Construction Technology Core & Sustainable Construction

Students will learn principles in basic safety (10-hr OSHA), construction math, hand and power tool care and operation, blueprint reading, material handling, communication and employability skills. An emphasis will be placed on safe and green construction practices.

Construction Pre-Apprenticeship/Capstone

The capstone course provides opportunities for students to apply knowledge, attitudes, and skills that were learned in construction programs in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course is delivered through a variety of methods, including cooperative education or apprenticeship.

Principles of Wood Construction

Students will engage in the introductory skills utilized in working with various wood construction materials. They will learn to use basic measuring tools, hand tools, and machines common to the wood industry to construct basic projects. Additionally, students will examine various wood construction materials and their properties. Throughout the course, students will learn components of site and personal safety.

Remodeling/Renovation

Students will apply structural and mechanical skills to remodeling and renovations. In addition, students will learn the process of securing the required building permits, the management of subcontractors, and the coordination of formal building inspections. Students will troubleshoot design or logistics issues and provide possible solutions. Throughout the course, the safe handling of materials, personal safety, prevention of accidents and the mitigation of hazards are emphasized.

Structural Systems

Students will learn procedures and techniques required for layout and framing of walls and ceilings including roughing-in door and window openings, constructing corners and partitions, bracing walls and ceilings, and applying sheathing. Students will learn methods of roofing, cold formed steel, and wood stair framing. Students will learn site and personal safety, material properties, design procedures, and code requirements for structural systems.

CREDENTIALS YOU CAN EARN

- Ohio State Apprenticeship Council Pre-Apprenticeship Program
- Skid Steer Operations
- OSHA 10 Construction Industry
- Career Connections Certificate - Levels I, II and III
- CPR/First Aid

INSTRUCTORS

- Diamond Oaks: Kurt Helmers – helmersk@greatoaks.com
- Scarlet Oaks: Brandon Williams – williamsb@greatoaks.com

Courses subject to change