

Heavy Equipment Operations & Engineering

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Available at: Laurel, Live

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.

Heavy Equipment Operations

Students will perform heavy equipment operating techniques and perform operator level maintenance. Students will learn to survey using lasers, transits and machine control systems. Additionally, students will learn the techniques and processes for clearing, grubbing, stripping, excavating, backfilling, stockpiling, and cutting and spreading of fill material. Throughout the course, safety is emphasized.

Construction Site Preparation

Students will use surveying, topographic, satellite positioning, and geomatics instruments to locate and prepare a site for construction. Students will establish lot and building lines as well as grade levels and use site plans and elevation drawings to determine excavation needs. Students will locate and mark underground and overhead services, identify soil conditions that may require shoring and position batter boards. Additionally, students will identify the parameters for site selection and zoning regulations and the process for filing building permits.

Plan Reading*

Students will learn blueprint reading as it relates to architecture and construction. Students will use scaling, orthographic projections, dimensioning practices, symbols, notations, and abbreviations to perform area calculations and to interpret floor plan, section, and elevations. Using construction plans, students will identify problems or shortcomings related to the layout and installation of materials for the project.

**These courses are eligible for college credit under the Career-Technical Assurance Guide (CTAG.)*

For more information about what CTAG is: ohiohighered.org/transfer/ct2/earning-college-credit

To learn what credit is currently available at Ohio colleges and universities: transfercredit.ohio.gov/pg_9?9915099094718

CREDENTIALS YOU CAN EARN

- Ohio Commercial Driver's License (where available)
- NCCER Core
- NCCER Level 1 Heavy Equipment Operations
- NCCER Level 2 Heavy Equipment Operations
- Rough Terrain Forklift Operations
- OSHA 10 Construction Industry
- CPR/First Aid

INSTRUCTORS

- Laurel Oaks: Russ Frommling – frommlingr@greatoaks.com
- Live Oaks: Kyle Kinney – kinneyk@greatoaks.com