

Heavy Equipment Operations & Engineering



Laurel Oaks
Live Oaks
Scarlet Oaks



MORE INFO
[greatoaks.com/
heavyequipment](http://greatoaks.com/heavyequipment)



Skills recommended to be successful in this career pathway:

ARCHITECTURE & CONSTRUCTION CAREER CLUSTER

ESSENTIAL SKILLS



Oral communication



Visual acuity/depth perception



Written communication



Perceptual speed/clerical & auditory perception



Physical strength/mobility



Reasoning skills/mechanical aptitude



Safety awareness



Eye/hand/arm coordination/manual dexterity

ACADEMIC SKILLS



APPLIED MATHEMATICS

- Use geometry for calculations
- Measure volume, slope and distance
- Use three-dimensional reasoning



WORKPLACE DOCUMENTS

- Read/write safety reports
- Understand estimates and bids
- Follow equipment maintenance schedules



GRAPHIC LITERACY

- Interpret blueprint drawings
- Use construction drawings
- Follow maintenance charts

DID YOU KNOW STUDENTS IN THIS PROGRAM...

- * Use practical math to solve problems
- * Have knowledge of types of rocks and soil
- * Service and maintain various types of equipment
- * Maintain constant awareness of surroundings
- * Have a knowledge of building construction materials

- * Frequently lift items more than 50 pounds
- * Rely on hand/foot/eye coordination to operate equipment
- * Maintain a safe and organized work environment
- * Work in all types of weather



COURSES



- Core and Sustainable Construction
- Heavy Equipment Operations



- Construction Surveying & Site Logistics
- Plan Reading



VIEW Great Oaks
Course Guide
[greatoaks.com/
course-guide](http://greatoaks.com/course-guide)

**Courses subject to change.*

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IS THIS YOU?



Find your work personality type with this free assessment at truity.com:



Holland's Model of Occupational Themes – graphic courtesy of the University of Tennessee.

Realistic | Conventional

Realistic personality types are “doers;” they like doing something, as opposed to talking or thinking about it. They like to solve problems in the real world. They are practical, independent, assertive, competitive, and interested in activities that require motor coordination, skill, and strength. Doers with a secondary personality type of “conventional” like to work in organized, independent, and structured environments.

Key strengths that lead to success in this career path

- | | |
|----------------------------|-----------------------|
| ✓ Dependability | ✓ Attention to detail |
| ✓ Initiative | ✓ Cooperation |
| ✓ Adaptability/flexibility | ✓ Independence |

WORK-BASED LEARNING OPPORTUNITIES

- | | | |
|-----------------|------------------|-------------------------------|
| ▶ Job shadowing | ▶ Guest speakers | ▶ Off-site community projects |
| ▶ Job placement | ▶ Field trips | |

COLLEGE & CAREER READY

Career Credentials

- | | |
|--|--------------------------|
| • NCCER Core | • Skid Steer |
| • NCCER Level 1 – Heavy Equipment Operations | • Forklift Operation |
| • NCCER Level 2 – Heavy Equipment Operations | • OSHA 10 – Construction |
| • Rough Terrain Forklift Operations | • CPR/First Aid |



For more information, visit ohiohighered.org

CAREER PATHWAYS

After earning credentials, get more education and experience to

- ▶ Apprentice
- ▶ Project estimator
- ▶ Site engineer
- ▶ Crane operator
- ▶ Truck driver
- ▶ Forklift operator
- ▶ Equipment salesperson
- ▶ Underground utility installer
- ▶ Landscaper



VIEW Essential Skills Guides
greatoaks.com/essential-skills

Entry-level pay range in Ohio

\$18 - 39
per hour



Great Oaks alum Andrew Hall