

# HEAVY EQUIPMENT OPERATIONS 49.0202.00

Program Description, Industry Credential, Coherent Sequence, and Teacher Certification

## **PROGRAM DESCRIPTION**

The **Heavy Equipment Operations** program prepares individuals to apply technical knowledge and skills to operate and maintain a variety of heavy equipment, such as crawler tractors, motor graders and scrapers, shovels, rigging devices, hoists, and jacks. The **Heavy Equipment Operations** program includes instruction in digging, ditching, sloping, stripping, grading, and backfilling, clearing and excavating.

The **Heavy Equipment Operations** program is delivered as a coherent sequence of courses designed to offer students knowledge and skills that meet the need of the workplace. The Professional Skills developed by business and industry leaders across Arizona are integrated throughout the program. Students learn how to get along with their team members, to make critical decisions, to solve problems, to develop respect, and to be successful in their chosen occupation. **Heavy Equipment Operations** students also develop leadership, social, civic, and career skills through their participation in the state-recognized Career and Technical Student Organization SkillsUSA.

The **Heavy Equipment Operations** instructional program prepares students for entry-level employment, further training, and/or post-secondary education for these and other occupations: Logging Equipment Operator, Paving Operator, Surfacing Operator, Tamping Equipment Operator, Pile-Driver Operator, Operating Engineer Construction Equipment Operator, Highway Maintenance Worker, Rail-Track Laying and Maintenance Equipment Operator, Earth Driller, Except Oil and Gas, Continuous Mining Machine Operator, Mine Cutting and Channeling Machine Operator, Mining Machine Operator, Extraction Worker, Crane and Tower Operator, Dredge Operator, Excavating Operator, Loading Machine Operator, Dragline Operator, Hoist Operator, and Winch Operator

## **INDUSTRY CREDENTIALS**

Review the [Current CTE Credential List](#) for approved A-F CCR and are CTED eligible for the **Heavy Equipment Operations** instructional program.

## **COHERENT SEQUENCE**

49.0202.10 - Heavy Equipment Operations I, **and**

49.0202.20 - Heavy Equipment Operations II, **and program may elect to add:**

49.0202.25- Heavy Equipment Operations III, **or**

49.0202.40 - Heavy Equipment Operations IV, **or**

49.0202.70 - Heavy Equipment Operations – DCE (Diversified Cooperative Education) **or**

49.0202.75 - Heavy Equipment Operations – Internship **or**

49.0202.80 - Heavy Equipment Operations – Cooperative Education

*Updated August 12, 2024*

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## TEACHER CERTIFICATION REQUIREMENTS

The instructor must be ADE/CTE certified in one of the following Certificates:

- SCTIET** Standard Career and Technical Education Industrial and Emerging Technologies
- SSCTEiet** Standard Specialized Career and Technical Education Industrial and Emerging Technologies

- Note:
- Heavy Equipment Operations 49.0202.70 (DCE) requires a CTE Teacher to have the Cooperative Education Endorsement (CEN).
  - Heavy Equipment Operations 49.0202.75 (Internship) does not require a CTE Teacher to have a Cooperative Education Endorsement (CEN).
  - Heavy Equipment Operations 49.0202.80 (Cooperative Ed.) requires CTE Teacher to be appropriately certified for the program and to have a Cooperative Education Endorsement (CEN).