

HEAVY EQUIPMENT OPERATIONS 49.0200.00

Program Description, Industry Credentials, 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 needs 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, make critical decisions, solve problems, 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

The following industry credentials have been approved for the A-F CCRI and may be appropriate for the **Heavy Equipment Operations** instructional program:

- NCCER Core
- NCCER Heavy Equipment Operator
- OSHA 10 Construction Industry

The following credential has been approved to meet CTED eligibility for the **Heavy Equipment Operations** instructional program:

- ATSSA Certified Flagger

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COHERENT SEQUENCE

49.0200.10 - Heavy Equipment Operations I, **and**

49.0200.20 - Heavy Equipment Operations II, **and program may elect to add:**

49.0200.25- Heavy Equipment Operations III, **or**

49.0200.40 - Heavy Equipment Operations IV, **or**

49.0200.70 - Heavy Equipment Operations – DCE (Diversified Cooperative Education) **or**

49.0200.75 - Heavy Equipment Operations – Internship **or**

49.0200.80 - Heavy Equipment Operations – Cooperative Education

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TEACHER CERTIFICATION REQUIREMENTS

CAREER PREPARATION: The instructor must be ADE/CTE certified according to the following Certificates, PCTIET, SCTIET, and SSCTEIET.

Note:

- Heavy Equipment Operations 49.0200.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN).
- Teacher/Coordinator 49.0200.75 is not required to have a Cooperative Education Endorsement (CEN).
- Teacher/Coordinator 49.0200.80 is required to have a Cooperative Education Endorsement (CEN).

CERTIFICATE TYPES

PCTIET Provisional Career and Technical Education Industrial and Emerging Technologies
SCTIET Standard Career and Technical Education Industrial and Emerging Technologies
SSCTEIET Standard Specialized Career and Technical Education Industrial and Emerging Technologies