

Heavy Industrial Maintenance 47.0300.00

Program Description, Industry Credentials, Coherent Sequence, and Teacher Certification Requirements

PROGRAM DESCRIPTION

The **Heavy Industrial Maintenance** program prepares individuals to apply technical knowledge and skills in the field of maintenance and repair of heavy/industrial machinery and equipment, and in the general maintenance and overhaul of such equipment, to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems. Includes instruction in inspection, maintenance, and repair of tracks, wheels, brakes, operating controls, pneumatic and hydraulic systems, electrical circuitry, engines, and techniques of welding and brazing.

The **Heavy Industrial Maintenance** Career and Technical Education 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. **Heavy Industrial Maintenance** students develop leadership, social, civic, and career skills through participation in the state-recognized Career and Technical Student Organization, SkillsUSA.

The **Heavy Industrial Maintenance** instructional program prepares students for entry-level employment, further training, and/or postsecondary education for these and other occupations: Maintenance Mechanic, Industrial Maintenance Mechanic, Plant Maintenance Technician, Maintenance Lead, Facilities Manager, Heavy Equipment Mechanic, Machine Operator.

COHERENT SEQUENCE

47.0300.10 – Heavy Industrial Maintenance I **and**

47.0300.20 – Heavy Industrial Maintenance II **and program may elect to add:**

47.0300.30 – Heavy Industrial Maintenance III **or**

47.0300.40 – Heavy Industrial Maintenance IV **or**

47.0300.70 – Heavy Industrial Maintenance – DCE (Diversified Cooperative Education) **or**

47.0300.75 – Heavy Industrial Maintenance – Internship **or**

47.0300.80 – Heavy Industrial Maintenance – Cooperative Education

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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
- SSCTEJET** Standard Specialized Career and Technical Education Industrial and Emerging Technologies

- Note:
- Heavy Industrial Maintenance 47.0300.70 - (DCE) does require a CTE Teacher to have the Cooperative Education Endorsement (CEN).
 - Heavy Industrial Maintenance 47.0300.75 - (Internship) **does not** require a CTE Teacher to have a Cooperative Education Endorsement (CEN).
 - Heavy Industrial Maintenance 47.0300.80 - (Cooperative Ed.) requires a CTE Teacher to be appropriately certified for the program and to have a Cooperative Education Endorsement (CEN).