

AUTOMOTIVE TECHNOLOGIES 47.0604.00

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

PROGRAM DESCRIPTION

The **Automotive Technologies** program prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. The **Automotive Technologies** program includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension, steering, automatic and manual transmissions and drive trains, and heating and air conditioning systems.

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

The **Automotive Technologies** instructional program prepares students for entry-level employment, further training, and/or postsecondary education for these and other occupations: Automotive Technician

INDUSTRY CREDENTIALS

The following credentials have been approved for the A-F CCR and are CTED eligible for the **Automotive Technologies** instructional program:

- ASE Student Certifications – A1 – Engine Repair
- ASE Student Certifications – A2 – Automatic Transmission/Transaxle
- ASE Student Certifications – A3 – Manual Drive Train & Axles
- ASE Student Certifications – A4 – Suspension & Steering
- ASE Student Certifications – A5 – Brakes
- ASE Student Certifications – A6 – Electrical/Electronic Systems
- ASE Student Certifications – A7 – Heating & Air Conditioning
- ASE Student Certifications – A8 – Engine Performance
- ASE Student Certifications – Automobile Service Technology
- ASE Student Certifications – G1/Maintenance and Light Repair
- National Coalition of Certification Centers (NC3) – Automotive Scanner Diagnostics
- National Coalition of Certification Centers (NC3) – Mechanical and Electrical Torque
- National Coalition of Certification Centers (NC3) – Multimeter
- National Coalition of Certification Centers (NC3) – Wheel Service and Alignment

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COHERENT SEQUENCE

47.0604.11 – Automotive Technologies I, **and**

47.0604.20 – Automotive Technologies II, **and**

47.0604.25 – Automotive Technologies III, **and program may elect to add:**

47.0604.31 – Automotive Technologies IV, **or**

47.0604.70 – Automotive Technologies – DCE (Diversified Cooperative Education) **or**

47.0600.75 – Automotive Technologies – Internship, **or**

47.0600.80 – Automotive Technologies – Cooperative Education

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:
- Automotive Technologies 47.0604.70 (DCE) requires a CTE Teacher to have the Cooperative Education Endorsement (CEN).
 - Automotive Technologies 47.0604.75 (Internship) **does not** require a CTE Teacher to have a Cooperative Education Endorsement (CEN).
 - Automotive Technologies 47.0604.80 (Cooperative Ed.) requires a CTE Teacher to be appropriately certified for the program and to have a Cooperative Education Endorsement (CEN).