

# Energy Systems 47.0701.00

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

### PROGRAM DESCRIPTION

The **Energy Systems** program prepares individuals to apply technical knowledge and skills to assemble, install, operate, maintain, and repair energy systems, including Solar, Wind, Hydroelectric, and Geothermal energy systems. Includes instruction in installing, maintaining, and testing various types of energy systems equipment.

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

The **Energy Systems** instructional program prepares students for entry-level employment, further training, and/or postsecondary education for these and other occupations: Engineer, Engineer Technician, Systems Engineer, Test Engineer, Building Engineer, and Energy Systems Designer.

### INDUSTRY CREDENTIALS

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

- OSHA 10

### COHERENT SEQUENCE

47.0701.10 – Energy Systems I **and**

47.0701.20 – Energy Systems II **and may elect to offer**

47.0701.30 – Energy Systems III **or**

47.0701.40 – Energy Systems IV **or**

47.0701.70 – Energy Systems DCE (Diversified Cooperative Education) **or**

47.0701.75 – Energy Systems Internship **or**

47.0701.80 – Energy Systems 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
- SSCTEIET** Standard Specialized Career and Technical Education Industrial and Emerging Technologies

- Note:
- Energy Systems 47.0701.70 (DCE) requires a CTE Teacher to have the Cooperative Education Endorsement (CEN).
  - Energy Systems 47.0701.75 (Internship) **does not** require a CTE Teacher to have a Cooperative Education Endorsement (CEN).
  - Energy Systems 47.0701.80 (Cooperative Ed.) requires a CTE Teacher to be appropriately certified for the program and to have a Cooperative Education Endorsement (CEN).