

ELECTRICAL AND POWER TRANSMISSION INSTALLATION 46.0301.00

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

PROGRAM DESCRIPTION

The **Electrical and Power Transmission Installation** program prepares individuals to apply technical knowledge and skills to install indoor and outdoor residential, commercial, and industrial electrical systems, and associated power transmission lines. The program includes instruction in electricity, safety procedures, wiring, insulation and grounding, schematic blueprint interpretation, equipment operation and maintenance, and applicable codes and standards.

The **Electrical and Power Transmission Installation** 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.

Electrical and Power Transmission Installation students also develop leadership, social, civic, and career skills through their participation in the state-recognized Career and Technical Student Organization SkillsUSA.

The **Electrical and Power Transmission Installation** instructional program prepares students for entry-level employment, further training, and/or postsecondary education for these and other occupations: First-Line Supervisors of Mechanics, Installers, and Repairers, and Electrical Power-Line Installers and Repairers

INDUSTRY CREDENTIALS

Review the [Current CTE Credential List](#) for approved A-F CCR and are CTED eligible for the **Electrical and Power Transmission Installation** instructional program.

COHERENT SEQUENCE

46.0301.11 – Electrical and Power Transmission Installation I, **and**

46.0301.20 – Electrical and Power Transmission Installation II, **and program may elect to add:**

46.0301.25 – Electrical and Power Transmission Installation III, **or**

46.0301.40 – Electrical and Power Transmission Installation IV, **or**

46.0301.70 – Electrical and Power Transmission Installation – DCE (Diversified Cooperative Education) **or**

46.0301.75 – Electrical and Power Transmission Installation – Internship **or**

46.0301.80 – Electrical and Power Transmission Installation – 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:
- Electrical and Power Transmission Installation 46.0301.70 (DCE) requires a CTE Teacher to have the Cooperative Education Endorsement (CEN).
 - Electrical and Power Transmission Installation 46.0301.75 (Internship) **does not** require a CTE Teacher to have a Cooperative Education Endorsement (CEN).
 - Electrical and Power Transmission Installation 46.0301.80 (Cooperative Ed.) requires CTE Teacher to be appropriately certified for the program and to have a Cooperative Education Endorsement (CEN).