

ELECTRICAL AND POWER TRANSMISSION INSTALLATION 46.0300.20

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 post-secondary education for these and other occupations: First-Line Supervisors of Mechanics, Installers, and Repairers, and Electrical Power-Line Installers and Repairers

INDUSTRY CREDENTIALS

The following credentials have been approved for the A-F CCR and are CTED eligible for the **Electrical and Power Transmission Installation** instructional program:

- Independent Electrical Contractors (IEC) - Level 1 Apprentice Electrician Pre-Apprenticeship
- National Center for Construction Education and Research (NCCER) - Core
- National Center for Construction Education and Research (NCCER) - Electrical - Level 1
- National Center for Construction Education and Research (NCCER) - Electrical - Level 2
- National Center for Construction Education and Research (NCCER) - Powerline Worker - Level 1
- OSHA 10 - Construction Industry
- Independent Electrical Contractors (IEC) - Level 1 Apprentice Electrician Pre-Apprenticeship

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COHERENT SEQUENCE

46.0300.11 - Electrical and Power Transmission Installation I, **and**

46.0300.20 - Electrical and Power Transmission Installation II, **and program may elect to add:**

46.0300.25 - Electrical and Power Transmission Installation III, **or**

46.0300.40 - Electrical and Power Transmission Installation IV, **or**

46.0300.70 - Electrical and Power Transmission Installation – DCE (Diversified Cooperative Education) **or**

46.0300.75 - Electrical and Power Transmission Installation – Internship **or**

46.0300.80 - 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: PCTIET, SCTIET, or SSCTEET

Note:

- Electrical and Power Transmission Installation 46.0300.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN).
- Electrical and Power Transmission Installation 46.0300.75 is not required to have a Cooperative Education Endorsement (CEN).
- Electrical and Power Transmission Installation 46.0300.80 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
SSCTEET	Standard Specialized Career and Technical Education Industrial and Emerging Technologies