ELECTRONICS DRAFTING 15.1300.30
Program Description, Industry Certification, and Coherent Sequence

PROGRAM DESCRIPTION

The **Electronics Drafting** program individuals to apply technical knowledge and skills to develop working schematics and representations in support of electrical/electronic engineers, computer engineers, and related professionals. **Electronics Drafting** program includes instruction in basic electronics, electrical systems and computer layouts; electrode-mechanical drafting; manufacturing circuitry; computer-aided drafting (CAD); and electrical systems specification interpretation.

The **Electronics Drafting** CTE 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. **Electronics Drafting** students also develop leadership, social, civic, and career skills through their participation in the state-recognized Career and Technical Student Organization SkillsUSA.

The **Electronics Drafting** instructional program prepares students for entry-level employment, further training, and/or post-secondary education for these and other occupations: Architectural Engineering, and Related Services, Building Equipment Contractor, Semiconductor and Other Electronic Component Manufacturing, Electric Power Generation, Transmission and Distribution, Employment Services, Aerospace Product and Parts Manufacturing, Navigational, Measuring, Electromedical, and Control Instruments Manufacturing, Wired and Wireless Telecommunications Carriers, Investigation and Security Services, Computer Systems Design and Related Services, Management of Companies and Enterprises, Electrical Equipment Manufacturing, Other Electrical Equipment and Component Manufacturing, Scientific Research and Development Services

INDUSTRY CERTIFICATIONS

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

- Autodesk Certified User (ACU) - AutoCAD

COHERENT SEQUENCE

15.1300.12 - Electronics Drafting I, **and**

15.1300.30 - Electronics Drafting II, **and program may elect to add:**

15.1300.25- Electronics Drafting III, **or**

15.1300.40 - Electronics Drafting IV, **or**

15.1300.70 - Electronics Drafting – DCE (Diversified Cooperative Education) **or**

15.1300.75 - Electronics Drafting – Internship **or**

15.1300.80 - Electronics Drafting – 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 SSCTEIET

Note:

- Electronics Drafting 15.1300.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN).
- Electronics Drafting 15.1300.75 is not required to have a Cooperative Education Endorsement (CEN).
- Electronics Drafting 15.1300.80 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
SSCTEIET Standard Specialized Career and Technical Education Industrial and Emerging Technologies