

ELECTRONICS DRAFTING 15.1305.00

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

PROGRAM DESCRIPTION

The **Electronics Drafting** program prepares individuals to apply technical knowledge and skills to develop working schematics and representations in support of electrical/electronic engineers, computer engineers, and related professionals. The **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 postsecondary 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; 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, Electrical Equipment Manufacturing, Other Electrical Equipment and Component Manufacturing, Scientific Research and Development Services

INDUSTRY CERTIFICATIONS

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

COHERENT SEQUENCE

15.1305.12 – Electronics Drafting I, **and**

15.1305.30 – Electronics Drafting II, **and program may elect to add:**

15.1305.35 – Electronics Drafting III, **or**

15.1305.39 – Electronics Drafting IV, **or**

15.1305.71 – Electronics Drafting – DCE (Diversified Cooperative Education) **or**

15.1305.76 – Electronics Drafting – Internship **or**

15.1305.81 - Electronics Drafting – 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
- SSCTEJET** Standard Specialized Career and Technical Education Industrial and Emerging Technologies

- Note:
- Electronics Drafting 15.1305.70 (DCE) requires a CTE Teacher to have the Cooperative Education Endorsement (CEN).
 - Electronics Drafting 15.1305.75 (Internship) **does not** require a CTE Teacher to have a Cooperative Education Endorsement (CEN).
 - Electronics Drafting 15.1305.80 (Cooperative Ed.) requires CTE Teacher to be appropriately certified for the program and to have a Cooperative Education Endorsement (CEN).