

CONSTRUCTION TECHNOLOGIES 46.0400.20

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

PROGRAM DESCRIPTION

The **Construction Technologies** program prepares individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. The **Construction Technologies** program includes instruction in construction equipment and safety; site preparation and layout; construction estimating; blueprint reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

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

The **Construction Technologies** instructional program prepares students for entry-level employment, further training, and/or post-secondary education for these and other occupations: Nonresidential Building Construction, Residential Building Construction, Building Equipment Contractor, Foundation, Structure, and Building Exterior Contractors, Other Specialty Trade Contractors, Building Finishing Contractor, Utility System Construction, Highway, Street, and Bridge Construction, Architectural, Engineering, and Related Services, Executive Support, Legislative Support, Other General Government Support, Metal Ore Mining, Administration of Economic Program, Electric Power Generation, Transmission and Distribution, Land Subdivision, Other Heavy and Civil Engineering Construction, Remediation and Other Waste Management Services, Water, Sewage and Other Systems

INDUSTRY CREDENTIALS

The following credentials have been approved for the A-F CCR and are CTED eligible for the **Construction Technologies** instructional program

- Independent Electrical Contractors (IEC) - Level 1 Apprentice Electrician Pre-Apprenticeship
- National Center for Construction Education and Research (NCCER) - Construction Technologies
- National Center for Construction Education and Research (NCCER) - Core
- National Coalition of Certification Centers (NC3) - Building Performance
- National Coalition of Certification Centers (NC3) - Multimeter
- National Coalition of Certification Centers (NC3) - Precision Measuring
- OSHA 10 - Construction Industry

CONSTRUCTION TECHNOLOGIES 46.0400.20

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

COHERENT SEQUENCE

46.0400.11 - Construction Technologies I, **and**

46.0400.20 - Construction Technologies II, **and program may elect to add:**

46.0400.25- Construction Technologies III, **or**

46.0400.31 - Construction Technologies IV, **or**

46.0400.70 - Construction Technologies – DCE (Diversified Cooperative Education) **or**

46.0400.75 - Construction Technologies – Internship **or**

46.0400.80 - Construction Technologies – Cooperative Education

CONSTRUCTION TECHNOLOGIES 46.0400.20

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

TEACHER CERTIFICATION REQUIREMENTS

The instructor must be ADE/CTE certified in one of the following Certificates: PCTIET, SCTIET, or SSCTEiet

Note:

- Construction Technologies 46.0400.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN).
- Construction Technologies 46.0400.75 is not required to have a Cooperative Education Endorsement (CEN).
- Construction Technologies 46.0400.80 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