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| **PROGRAM DESCRIPTION** | |
| The **Mechanical Drafting** program prepares individuals to apply technical knowledge and skills to develop working drawings and electronic simulations in support of mechanical and industrial engineers, and related professionals. The **Mechanical Drafting** program includes instruction in manufacturing materials and processes, mechanical drafting, electrode-mechanical drafting, basic metallurgy, geometric dimensioning and tolerancing, blueprint reading, and technical communication. | |
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| The **Mechanical Drafting** 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. **Mechanical Drafting** students also develop leadership, social, civic, and career skills through their participation in the state-recognized Career and Technical Student Organization, SkillsUSA. | |
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| The **Mechanical Drafting** instructional program prepares students for entry-level employment, further training, and/or postsecondary education for these and other occupations: Architectural Related Services, Engineering Related Services, Aerospace Product and Parts Manufacturing, Architectural and Structural Metals Manufacturing, Employment Services, Building Equipment Contractor, Navigational Instruments Manufacturing, Measuring Instruments Manufacturing, Electromedical Instruments Manufacturing, Control Instruments Manufacturing, Electronic Component Manufacturing, Metalworking Machinery Manufacturing  Fabricated Metal Product Manufacturing, Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing, Industrial Machinery Manufacturing, Machinery Merchant Wholesaler, Equipment Merchant Wholesaler, Supplies Merchant Wholesalers, Household and Institutional Furniture and Kitchen Cabinet Manufacturing, Agriculture Machinery Manufacturing, Construction Machinery Manufacturing, Mining Machinery Manufacturing, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing, Management of Companies and Enterprises, Commercial and Service Industry Machinery Manufacturing, General Purpose Machinery Manufacturing, Boiler Manufacturing, Tank Manufacturing, Shipping Container Manufacturing, Building Material and Supplies Dealers. | |
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| **INDUSTRY CREDENTIALS** | |
| Review the [**Current CTE Credential List**](https://live-az-ade.pantheonsite.io/sites/default/files/2024/07/Current-Credential-List.pdf) for approved A-F CCR and are CTED eligible for the **Mechanical Drafting** instructional program. | |
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| **COHERENT SEQUENCE** | |
| 15.1306.13 – Mechanical Drafting I, **and** | |
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| 15.1306.40 – Mechanical Drafting II, **and program may elect to add:** | |
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| 15.1306.45 – Mechanical Drafting III, **or** | |
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| 15.1306.50 – Mechanical Drafting IV, **or** | |
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| 15.1306.72 – Mechanical Drafting – DCE (Diversified Cooperative Education) **or** | |
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| 15.1306.77 – Mechanical Drafting – Internship **or** | |
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| 15.1306.82 – Mechanical Drafting – Cooperative Education | |
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| **TEACHER CERTIFICATION REQUIREMENTS** | |
| The instructor must be ADE/CTE certified in one of the following Certificates: | |
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| **SCTIET** | Standard Career and Technical Education Industrial and Emerging Technologies |
| **SSCTEIET** | Standard Specialized Career and Technical Education Industrial and Emerging Technologies |
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| Note: | * Mechanical Drafting 15.1306.72 (DCE) requires a CTE Teacher to have the Cooperative Education Endorsement (CEN) * Mechanical Drafting 15.1306.77 (Internship) **does not** require a CTE Teacher to have a Cooperative Education Endorsement (CEN). * Teacher/Coordinator 15.1306.82 (Cooperative Ed.) requires CTE Teacher to be appropriately certified for the program and to have a Cooperative Education Endorsement (CEN). |