

MECHANICAL DRAFTING 15.1300.40

Program Description, Coherent Sequence, and Certification Information

PROGRAM DESCRIPTION

The **Mechanical Drafting** program is designed to prepare students to apply technical skills via computer-assisted design and drafting to create two- and three-dimensional engineering designs using BIM (Building Information Models) type programs. It includes instruction in specification interpretation, dimensioning techniques, drafting calculations, material estimation, technical communications, and computer applications. In addition to the occupation-related skills, students completing this program will develop advanced critical thinking, applied academics, interpersonal relations, life management, and business, economic, and leadership skills required for the 21st-century workplace. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, work-based learning and leadership and personal development through the Career and Technical Student Organization SkillsUSA. This program can lead toward the American Drafting and Design Association Certified Drafter Apprentice, Autodesk Certified User, or Chief Architect User certification.

COHERENT SEQUENCE

15.1300.13 Mechanical Drafting I

and

15.1300.40 Mechanical Drafting II

and program may elect to add:

15.1300.45 Mechanical Drafting III

or

15.1300.70 Mechanical Drafting – DCE (Diversified Cooperative Education)

or

15.1300.75 Mechanical Drafting - Internship

or

15.1300.80 Mechanical Drafting – Cooperative Education

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TEACHER CERTIFICATION REQUIREMENTS FOR THE MECHANICAL DRAFTING PROGRAM	
CAREER PREPARATION: The instructor must be CTE certified according to the following table:	
Mechanical Drafting	CERTIFICATES
	Types: PCTIET, SCTIET, SSCTEIET
Note: <ul style="list-style-type: none"> ▪ Mechanical Drafting 15.1300.70 may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 15.1300.75 is not required to have a Cooperative Education Endorsement (CEN). ▪ Teacher/Coordinator 15.1300.80 is required to have a Cooperative Education Endorsement (CEN). 	

CERTIFICATE ABBREVIATIONS FOR THE MECHANICAL DRAFTING PROGRAM	
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