Kentucky CTE

Advanced Manufacturing: Introduction to Computer-Aided Drafting 480110 (2026–2027)

Demonstrate and practice safe work habits in the lab area. 1	1 Demonstrate and practice safe work habits in the lab area. 1
Demonstrate an understanding of orthographic projection, section, auxiliary, and pictorial views as they relate to three-dimensional objects. 2	2 Demonstrate an understanding of orthographic projection, section, auxiliary, and pictorial views as they relate to three-dimensional objects. 2
Identify the alphabet of lines and name each line's use. 3	3 Identify the alphabet of lines and name each line's use. 3
Use architects, metric, civil, and mechanical drafter's scales. 4	4 Use architects, metric, civil, and mechanical drafter's scales. 4
Understand the use and purpose of a title block. 5	5 Understand the use and purpose of a title block. 5
Demonstrate a basic understanding of dimensions and their uses. 6	6 Demonstrate a basic understanding of dimensions and their uses. 6
De co ba	)escribe, using correct computer terminology, basic computer functions, uses of omputers in society, and different types of software. 7

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functions, uses of computers in society, and different types of software. 7	
Discuss ethical computing issues such as copyright, privacy, security, and property. 8	8 Discuss ethical computing issues such as copyright, privacy, security, and property. 8
Use graphical user interface. 9	9 Use graphical user interface. 9
Use computer application programs. 10	10 Use computer application programs. 10
Access information sources found on networks such as the Internet and utilize web browsers, search sources, and sources of information related to their field. 11	11 Access information sources found on networks such as the Internet and utilize web browsers, search sources, and sources of information related to their field. 11
Demonstrate an awareness of different types of software applications. 12	12 Demonstrate an awareness of different types of software applications. 12
Produce line entities using various coordinate techniques. 13	13 Produce line entities using various coordinate techniques. 13
Construct geometric shapes in two-dimensional space. 14	14 Construct geometric shapes in two-dimensional space. 14
Develop detailed orthographic views as required. 15	15 Develop detailed orthographic views as required. 15
Construct cross-sections of	16 Construct cross-sections of various designs with cross-hatching incorporated as desired. 16

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incorporated as desired. 16

Apply dimensions and annotations to drawings. 17

17 Apply dimensions and annotations to drawings. 17

Move, copy, delete, and save drawings or portions of drawings. 18

18 Move, copy, delete, and save drawings or portions of drawings. 18

Use CAD to manipulate drawings by means of translation, rotation, scaling, zooming, panning, and windowing. 19

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Explore three-dimensional drawing techniques. 20

20 Explore three-dimensional drawing techniques. 20