	High School Graduation Years 2019, 2020 and 2021	
Unit/Standard Number	Drafting and Design Technology/Technician, General CIP 15.1301 Task Grid	Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level
	Secondary Competency Task List	
100	ORIENTATION	
-	Demonstrate safety in the drafting room.	
	Demonstrate professionalism.	
200	INTRODUCTION TO DRAFTING AND DESIGN	
	Identify basic board drafting tools and equipment, which are used to produce drawings.	
	RESERVED	
	Demonstrate the knowledge of the basic uses of scales.	
	Demonstrate skill in using Imperial and Metric System of measurement.	
	Identify components of a drawing.	
206	Identify and select a letter style appropriate for technical drawings.	
300	GEOMETRIC CONSTRUCTION	
	Draw to scale.	
302	Draw geometric figures using basic drafting principles	
	Create drawings using geometric construction principles.	
400	RESERVED	
401	RESERVED	
402	RESERVED	
403	RESERVED	
	FREEHAND DRAWING AND SKETCHING	
	Identify and sketch the alphabet of lines.	
	Sketch orthographic views.	
503	Sketch an isometric drawing.	
	Develop a perspective drawing using freehand methods.	
	RESERVED	
	RESERVED	
	Express an idea using the sketching process.	
508	Create letters and numbers in single stroke capital letters (Gothic) on a technical sketch.	

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600	INTRODUCTION TO ENCINEEDING MATIL	
	INTRODUCTION TO ENGINEERING MATH	
	Use basic math operations to demonstrate scaling techniques.	
602	Use basic applied mathematics to solve engineering problems.	
	Construct lines using relative, absolute and polar coordinate systems.	
604	Establish the relationship among points, lines, and planes in 3-D space.	
605	Solve descriptive geometry problems.	
700	INTRODUCTION TO MECHANICAL DRAWING AND DESIGN	
701	Identify and draw necessary orthographic views.	
702	Explain the relationship of orthographic projection to multiview drawing.	
	Identify 1st angle and 3rd angle projection.	
704	Identify and draw auxiliary views.	
	Identify and draw section views.	
	Identify and draw threads and fasteners.	
	Create working drawings (assembly, detail drawings, BOM)	
708	Create a title block on a mechanical drawing.	
800	DIMENSIONING	
801	Apply measurements, notes, and symbols to a technical drawing.	
	Apply ASME Standards for Dimensions, tolerances, and notes.	
	Apply ISO Standards for Dimensions and notes.	
804	Specify dimensions and tolerances using symbols and notes.	
805	Reverse engineer a drawing from an existing part.	
	INTRODUCTION TO ARCHITECTURE	<u> </u>
	RESERVED	
	Construct a floor plan.	
	Construct an elevation.	
	Construct a typical wall section.	
	Draw a pictorial view. RESERVED	
906	INEGENVED	
1000	INTRODUCTION TO CIVIL DRAFTING	
	INTRODUCTION TO CIVIL DRAFTING Construct a site plan.	
1001	Portional a site plan.	

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CIP 15.1301 Task Grid Competenc Achieved to Ind Proficiency Le Tool RESERVED Tool Read and interpret a deed. Tool Introduction to ELECTRICAL AND ELECTRONIC DRAFTING Tool Identify survey and/or GPS equipment. Tool Introduction to ELECTRICAL AND ELECTRONIC DRAFTING Total Identify and describe various symbols. Tool Computer Assisted Drafting diagram. Tool Computer Assisted Drafting (CAD) Total Utilize input and output devices such as printers, plotters, etc. Tool Use drawing aids and controls. Tool Use viewing tools. Tool Drafting Ibrary. Tool Drafting Ibrary. Tool Drafting Ibrary. Tool Research Street Sedmensions and tolerances. Tool Research Sedmensional models. Tool Res	Number	High School Graduation Years 2019, 2020 and 2021	Proficiency Level Achieved:
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1216 Draw, modify and apply text justifications on a CAD system.			

Revised April 2018