

Unit/Standard Number	 <p style="text-align: center;">High School Graduation Years 2010, 2011 and 2012</p> <p style="text-align: center;">Drafting and Design Technology/Technician, General CIP 15.1301 Task Grid</p>	<p style="text-align: center;">Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level</p>
	Secondary Competency Task List	
100	ORIENTATION	
101	Demonstrate safety in the drafting room.	
102	Demonstrate professionalism.	
200	CAREER AWARENESS AND EMPLOYABILITY	
201	Perform career exploration.	
202	Identify Local and National Career opportunities.	
300	APPLICATION OF INSTRUMENTS	
301	Demonstrate use of basic board drafting tools and equipment.	
302	Demonstrate equipment usage by producing a one-view drawing using scaled measurements.	
303	Demonstrate basic uses of scales.	
400	GEOMETRIC CONSTRUCTION	
401	Draw to scale.	
402	Draw a series of geometric figures.	
403	Demonstrate geometric construction principals.	
404	Create drawings using Geometric Construction principles.	
500	LETTERING	
501	Letter and numbers in single stroke capital letters (Gothic).	
502	Draw, modify and apply text justifications on a CAD system.	
600	FREEHAND DRAWING AND SKETCHING	
601	Sketch the alphabet of lines.	
602	Sketch orthographic views.	
603	Sketch an oblique and isometric drawing.	
604	Develop a pictorial using freehand methods.	

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605	Explain the importance of freehand sketching.	
606	Letter clear, neat freehand notes and dimensions on a technical sketch.	
607	Describe and imply design intent as related to the sketching process.	
700	ENGINEERING MATH	
701	Use basic engineering math operations to demonstrate scaling techniques.	
702	Use basic engineering math to solve engineering problems.	
703	Construct lines on a CAD system using relative, absolute and polar coordinate systems.	
704	Establish the relationship among points, lines, and planes in 3-D space.	
705	Solve descriptive geometry problems.	
800	INTRODUCTION TO MECHANICAL	
801	Identify & draw necessary orthographic views.	
802	Explain the relationship of orthographic projection to multiview drawing.	
803	Demonstrate knowledge of 3rd angle projection.	
804	Identify & draw auxiliary views.	
805	Identify & draw section views.	
806	Identify & draw patterns and developments.	
807	Identify & draw section views.	
808	Identify & draw threads and fasteners.	
900	DIMENSIONING	
901	Apply measurements, notes, and symbols to a technical drawing.	
902	Apply ANSI Standards for Dimensions, tolerances, and notes.	
903	Apply ISO Standards for Dimensions and notes.	
904	Specify geometric tolerances using symbols and notes.	
1000	INTRODUCTION TO ARCHITECTURE	
1001	Read and interpret blueprints.	
1002	Construct a floor plan.	
1003	Construct an elevation.	

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1004	Construct a typical wall section.	
1100	INTRODUCTION TO CIVIL DRAFTING	
1101	Construct a site plan.	
1102	Construct a of a profile view.	
1200	INTRODUCTION TO ELECTRICAL AND ELECTRONIC DRAFTING	
1201	Identify and describe various symbols.	
1202	Create a schematic wiring diagram.	
1300	USING COMPUTER ASSISTED DRAFTING (CAD)	
1301	Utilize input and output devices such as printers, plotters, etc.	
1302	Use drawing aids and controls.	
1303	Use drawing and editing tools.	
1304	Use viewing tools.	
1305	Utilize a commercially built drafting library.	
1306	Produce a custom built drafting library.	
1307	Make a revision to an existing drawing.	
1308	Configure and use dimensions and tolerances.	
1309	Create 3-dimensional drawings and models.	
1310	Create surface models.	
1311	Create parametric solid models.	
1312	Demonstrate rendering.	
1313	Demonstrate importing, exporting, and linking of drawings.	
1400	PERFORMING SUPPLEMENTAL DRAFTING ACTIVITIES	
1401	Draw a cover sheet.	
1402	Prepare plan abbreviations list.	
1403	Add title block information to drawings.	
1404	Indicate on plans the location of section views.	
1405	Make copies of original drawings.	
1406	File original working drawings.	