

Learning Goals and Scales
2015-2016

Unit: CAD/Orthographic Projection

Learning Goals:

In this unit:

1. *Students will be able to operate CAD to produce various Working Drawings.*
2. *Students will demonstrate knowledge/skills with Orthographic Projection/CAD.*

Rigorous Learning Goal/Scale 1

Course:	Engineering Drawing– CAD/Orthographic Projection
<p>Score 4</p> <p>Additional Success with the complex content and concepts—inferences, novel applications</p>	<p>In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught.</p> <ul style="list-style-type: none"> • <i>Student demonstrates knowledge/skills with CAD and is able to present the knowledge and skills to his/her peers to help solve problems/assess and edit/complete their work.</i> <p>Student makes no major errors or omissions regarding the score 4 content</p>
<p>Score 3</p> <p>Mastery of complex content and concepts of learning goal</p>	<p>TARGET LEARNING GOAL: The student will</p> <ul style="list-style-type: none"> • <i>be able to operate CAD to produce various single/plan view Working Drawings.</i> <p>Student makes no major errors or omissions regarding the score 3 content</p>
<p>Score 2</p> <p>Success with simpler content—vocabulary, foundational skills</p>	<p>The student will recognize or recall specific vocabulary or basic content, such as:</p> <ul style="list-style-type: none"> • <i>layout, line, 2D-3D, Working Drawing, Orthographic Projection Offset, Rotate, Grips, Extend, Trim, Move, Copy, Line, Circle, Text</i> <p>The student will perform basic skills or process, such as:</p> <ul style="list-style-type: none"> • Basic math operations, Read a ruler/measure, CAD techniques Making Layers, Setting Dimensions, Printing plans <p>Student makes no major errors or omissions regarding the score 2 content</p>
<p>Score 1</p> <p>Partial success with help</p>	<p>With help, student achieves partial success at score 2 content and/or score 3 content</p>
<p>Score 0</p> <p>No success even with help</p>	<p>Even with help, no success</p>

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Rigorous Learning Goal/Scale 2

Course:	Engineering Drawing– CAD/Orthographic Projection
Score 4 Additional Success with the complex content and concepts—inferences, novel applications	In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught. <ul style="list-style-type: none"> • <i>Student demonstrates knowledge visualizing and drawing all 6 orthographic views and can determine/specify all hidden line and center lines requirements</i> Student makes no major errors or omissions regarding the score 4 content
Score 3 Mastery of complex content and concepts of learning goal	TARGET LEARNING GOAL: The student will <ul style="list-style-type: none"> • <i>be able to read/produce the primary 2d orthographic views of 3d objects with CAD.</i> Student makes no major errors or omissions regarding the score 3 content
Score 2 Success with simpler content—vocabulary, foundational skills	The student will recognize or recall specific vocabulary or basic content, such as: <ul style="list-style-type: none"> • <i>layout, 2D-3D, Working Drawing, Orthographic Projection Offset, Rotate, Grips, Extend, Trim, Move, Copy, Line, Circle, Text</i> The student will perform basic skills or process, such as: <ul style="list-style-type: none"> • Basic math operations, Read a ruler/measure, CAD techniques Making Layers, Setting Dimensions, Printing plans Student makes no major errors or omissions regarding the score 2 content
Score 1 Partial success with help	With help, student achieves partial success at score 2 content and/or score 3 content
Score 0 No success even with help	Even with help, no success