Unit: Sectioning
Learning Goals:
In this unit:
1. Students will learn/apply Concepts and Rules to Sectioning reproduce different types of 2-D and 3-D section view working drawings on CAD.
2. Students will identify reasons for using sectioning to convey ideas in plans.

Rigorous Learning Goal/Scale 1

Course:	Advanced Engineering Drawing –Sectioning Unit
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.** • *Student is able to explain reasons for showing objects in section view form and can independently produce a complete section view working drawing on CAD and can designate which type of sectioned view should be used and where the cutting plan line should be placed.* **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** • **learn/apply appropriate sectioning concepts and rules to complete various types of two dimensional section view drawings.** **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:** • **full section, half section, broken out section, offset section, cutting plane line,** **The student will perform basic skills or process, such as:** • **Using CAD –new = Hatch, Pline** • **measurement application** • **orthographic visualization/interpretation** **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**

Rigorous Learning Goal/Scale 2

Course:	Advanced Engineering Drawing –Sectioning Unit
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.** • ***Student is able to explain reasons for showing objects in section view form and can independently produce a Three-Dimensional sectioned Pictorial on CAD and can designate which type of sectioned view should be used and where the cutting plan line should be placed.*** 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** • **learn/apply appropriate sectioning concepts and rules to complete various types of Three-Dimensional sectioned pictorial drawings.** 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:** • **full section, half section, broken out section, offset section, cutting plane line,** **The student will perform basic skills or process, such as:** • **Using CAD – new = Hatch, Pline** • **Isometric/Oblique drawing** • **measurement application** • **orthographic visualization/interpretation** 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**