

MFG 104 : BLUEPRINT READING FOR WELDERS

Transcript title

Print Reading for Welders

Credits

4

Grading mode

Standard letter grades

Total contact hours

80

Lecture hours

20

Lab hours

60

Course Description

Introduces students to the fundamental interpretation of technical drawings commonly utilized in industrial fabrication facilities. Explores basic lines and views, dimensioning, cut lists/bills of material, alternative views, assembly prints, and American Welding Society welding symbols.

Course learning outcomes

1. Describe and interpret all aspects of technical drawings and their elements.
2. Explain cut lists and bills of material.
3. Distinguish American Welding Society welding symbols.
4. Describe various structural shapes and materials used on a cutlist.

Content outline

1. Basic lines and views
2. 2D and 3D sketching
3. Notes and specifications
4. Dimensioning
5. Bills of material
6. Structural shapes
7. Other views
8. Assembly drawings and prints
9. Welding symbols
10. Application of welding symbols
11. Basic welding joints in fabrication
12. Fillet weld symbols
13. Groove weld symbols
14. Plug, slot, spot and seam weld symbols
15. Surfacing weld symbols

Required materials

Students will be responsible for purchase of supplies and materials to complete the course.