MFG 101: BLUEPRINT READING

Transcript title

Blueprint Reading

Credits

3

Grading mode

Standard letter grades

Total contact hours

60

Other hours

60

Course Description

Covers reading and interpreting industrial blueprints used in manufacturing/fabrication. Includes interpretation of line types, geometric tolerancing and dimensioning, surface finish callouts, auxiliary views, and orthographic projection.

Course learning outcomes

- 1. Use standard drawing title block notes and drawing formats that are typical in the machining, welding, and building construction trades.
- 2. Identify the meaning of different types of lines, symbols, print views, assembly prints, and call outs used to represent a three-dimensional object with two-dimensional drawings.
- 3. Interpret multi-view, sectional, and auxiliary drawings to visualize threedimensional objects from two-dimensional drawings.
- 4. Interpret basic geometric, dimensioning, and tolerance standards indicated on the blueprint.
- 5. Derive missing linear and/or angular dimensional values on industry standard blueprints.

Content outline

General Measurement Semi-Precision Measurement Layout Interpreting Engineering Symbols and Drawings Interpreting Welding Symbols and Drawings Interpreting Shop Symbols and Drawings

Required materials

None.