

BLUEPRINT READING

DESCRIPTION

Prints are manufacturing instructions and generally contain a drawing, dimensions, and notes. Print Reading is the universal form of communication allowing the engineering department and the manufacturing department to communicate all the information that is needed to manufacture a product. Upon completion of the program, you will have gained a new set of skills for reading engineering prints.

LEARNING OBJECTIVES

- Interpret and describe the technical information provided on industrial prints through drawings, dimensions, and notes.
- Visualize three-dimensional parts from the standard orthographic projections found on prints.
- Navigate the total manufacturing print, including lines, scale, language, symbols, title blocks, and other components.
- Visualize parts from drawings consisting of multiple views, including basic, auxiliary, partial and various types of section views.
- Interpret standard surface finish symbols and screw thread designations.
- Understand drawing features, symbols and notes unique to castings, forgings, and molded part prints

PREREQUISITES

None

INCLUDED IN THE TRAINING:

- 2 Day course (16 hrs.) = 8 hr. / day
- Student exercises
- C. Gillis, Hammer's Blueprint Reading Basics, 4th Edition.
- Certificate of Attendance

COURSE OUTLINE

- The Basics of Manufacturing Prints.
- The Reading of Manufacturing Prints, Types of Drawings and Projection Systems.
- Types of Lines on Drawings, Scale and Notes.
- Orthographic, Auxiliary, Section and Detail Views.
- Arrangements of Dimensions on Drawings.



- Tolerancing
- Short Introduction to GD&T Symbols
- Surface Finish Symbols
- Methods of Displaying Threads
- Machine Terms and Manufacturing Processes
- Casting, Forging and Molded Part Prints

MEET THE INSTRUCTOR

Your training instructor, Rob Bushong, has 10 years of experience in dimensional inspection service, and 10 more in various realms of manufacturing including assembly, injection molding, and product launch processes. Rob not only has practical experience working with drawings and measured parts from a wide range of industries such as precision machining, injection molding, stamping, casting, but also has worked directly with the data after it has been collected. He's worked with rigid and non-rigid parts of all shapes and sizes, parts with standard geometry and free-form surfaces. Rob is an AUKOM certified metrologist and is fluent with GD&T concepts having taken multiple courses and working with drawings every day.

