

# BASIC PRINT READING

## COURSE 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 drawings consisting of multiple views, including principal, auxiliary, partial and section views
- Determine part dimensions and tolerances including geometric tolerances
- Interpret standard surface finish symbols and screw thread designations.
- Understand drawing features, symbols and notes unique to castings, forgings, and molded part prints, welded parts, sheet metal parts, gears, splines, and cams.
- Identify relevant information from a variety of other common types of prints used to convey specific types of information.

## COURSE OUTLINE

- The Basics of Manufacturing Prints
- The Reading of Manufacturing Prints
- The Total Manufacturing Print
- Views
- Dimensioning Fundamentals
- Dimensioning Applications
- Size Tolerances
- Geometric Tolerances
- Surface Finish



**DYNAMIC DESIGN CONSULTING, LLC**

[www.dynamicdesignconsulting.com](http://www.dynamicdesignconsulting.com)

# BASIC PRINT READING

## COURSE OUTLINE, CONT.

- Threads
- Manufacturing Processes
- Casting, Forging, and Molded Part Prints
- Welding and Sheet Metal Prints
- Gears, Splines, and Cams
- Types of Manufacturing Prints

**Prerequisites:** None.

**Course Format:** 16 hours:  
2 in-person sessions or 4  
online sessions

## WHO SHOULD ATTEND

This course is designed for anyone who needs to properly interpret and act upon the information contained in engineering specifications, including mechanical engineering technicians, manufacturing engineering technicians, machinists, welders, fabricators, tool & die makers, and quality assurance technicians.



**DYNAMIC DESIGN CONSULTING, LLC**

[www.dynamicdesignconsulting.com](http://www.dynamicdesignconsulting.com)

