

Mechanical Print Reading

OEM: Rockwell Automation • Duration: 3 Days (24 hrs) • Code: FND-015

COURSE MODULES & TOPICS

Objectives

- List and explain the types of mechanical drawings
- Explain and describe the purpose of the title block, legend, revisions, and material list in terms of location and content
- Describe and identify the meaning of each of the six types of lines used in drawings
- Identify and define the types of views used in drawings
- Given a drawing, identify its construction, size, and location dimensions
- Locate and identify tolerances on machine drawings
- Measure and identify screw threads
- Identify and discuss the different types of dimensions found in drawings
- Identify and discuss the different elements of a P&ID
- Draw schematics of simple mechanical systems

Facility Requirements

- Orthographic
- Working Drawings
- Detail Drawings
- Isometric Drawings

Course Agenda

Day 1

- Introduction
- Interpreting title block information
- Recognizing line types
- Interpreting drawing properties

Day 2

- Reading screw heads and fastener information
- Interpreting dimensions
- Identifying surface types

Day 3

- Using numbering systems
- Checking revision control
- Locating drawings
- Lab exercises
- Review
- Final lab
- Written exam