

Basic Interpreting of Technical Drawing

INTRODUCTION

A concurrent engineering team equipped with the proper tools has the ability to shorten time to market, reduce engineering changes and create a robust quality design. The drawing is the common thread of the concurrent engineering tool.

Drawings are not only art, but also legal documents. Engineering drawings are regularly used to prove the negligence of one party or another in a court of law. For these reasons, the effort made in fully understanding them cannot be taken for granted.

In many ways, creating an engineering drawing is the same as a part production activity. The main difference between drawing production and part production is that the drawing serves many different functions in a company.

These courses are taught in accordance with the internationally recognized ASME standards unless requested otherwise.

COURSE OBJECTIVES

By the end of this section, participants should be able to:

- Explain the concept of graphic communication, their type and their role.*
- Familiarize with the basic information included in a drawing.*
- Explain the principle and application of sectioning.*
- Translate geometric callouts into plain English with one meaning.*
- Calculate geometric tolerance and boundaries.*

TARGET AUDIENCE

This course is ideal for anyone who has a need to apply or interpret a product print.

Basic Interpretation of Technical Drawing

New Mechanical Engineers

Product Engineers, Purchaser, Manufacturing Engineers, CAD Designers, Quality Engineers & Inspectors and manufacturing personnel.

PREREQUISITES

Not required

CLASSROOM REQUIREMENTS (Eg Computer Lab, software, Projector, White Board)

Basic Training room set up equipped with Projector, White Board.

TRAINING OUTLINE

Section 1	Chapter 1	<i>Introduction to Technical Drawing</i> • <i>What is Technical drawing?</i> • <i>Purpose of Technical drawing</i> • <i>Application of Technical drawing</i> • <i>Basic of Technical drawing</i> • <i>Principle of drawing</i>
	Chapter 2	<i>Basic information in drawing</i> • <i>Title block</i> • <i>Section view</i> • <i>Notes</i> • <i>Projection view</i> • <i>Projection system</i> • <i>Dimensioning</i> <i>Case study & Exercise</i>
Session 2	Chapter 3	<i>Drawing structure</i> • <i>Frame structure</i> • <i>Paper size</i> • <i>History block</i>

Basic Interpretation of Technical Drawing

New Mechanical Engineers

		• <i>Bill of Material</i>
	<i>Chapter 4</i>	<i>Dimensioning & Tolerancing</i> • <i>General dimensioning</i> • <i>Basic dimension</i> • <i>Unequal Bilateral</i> • <i>Equal Bilateral</i> • <i>Unilateral</i> • <i>Limit</i> • <i>Rules of thumb</i>
<i>Session 3</i>	<i>Chapter 5</i>	<i>Type of Drawing</i> • <i>Conventional drawing vs GD&T Drawing</i> • <i>Advantage of GD&T drawing</i> • <i>Part drawing</i> • <i>Assembly drawing</i>
	<i>Chapter 6</i>	<i>Case study & Exercise</i> <i>Q&A</i> <i>Assessment</i> <i>End</i>

DURATION

1 Day - (0900 hr. to 1700 hr.)

TRAINER'S PROFILE

Yong WK (MBA,UK), 011-2436 3843, Please refer to the stand alone profile attached