

Course Title: GEOMETRY DRAWING AND FITTING WORK

Course Code: DS 110

Course Background / Summary:

This course teaches participants orthographic drawing using part samples, stationery, a drawing board and a measuring instrument, whereby the part sample is measured, orthographic drawing is drawn, and part drawing specification is confirmed in accordance with drawing standard requirements. They will also be exposed to measuring, hand tools and fitting work where they will learn more about linear measurement using a caliper, micrometer, height gauge, measuring check sheet, parts, parts drawing and steel ruler. This will include filing work, material cutting using workpiece and hammering work by using workpiece, files, vise, file brush machinist square, surface table and parts drawing so that parts drawing interpreted, workpiece and filing tools set up, workpiece filed, and part finishing confirmed in accordance with the part specification.

Course Objectives:

- Use all the manual technical drawing equipment to develop the geometry drawing.
- To develop mechanical parts.
- To interpret the geometry drawing and carry out common geometric dimensioning and tolerancing (GD&T) application.

Target Audience:

- Mechanical engineers, lecturers, technicians

Course Duration: 3 Days

Course Contents

1.0 Geometry Drawing

6.0 Tools and Procedures

2.0 Technical Free Hand Sketching

7.0 Filing Work, Material Cutting, Knocking and Hammering Work

3.0 Linear And Angular Measuring

8.0 Drilling Machine and Accessories

4.0 Gauge Application

9.0 Drilling Process

5.0 Common Geometric Dimensioning and Tolerancing (Gd&T) Application

10.0 Counter Bore and Counter Sunk Process (Drill)