



# Fitting and Safe Use of Hand Tools

Duration : All short courses between 3-5 days

## Program Details

### ➤ Safety

- Workshop safety and preparing to work in an engineering workshop.
- Protection clothing and associated equipment.

### ➤ Marking Out and Measuring

- Reading and interpreting engineering drawings with particular reference to mechanical maintenance requirements
- Use of common marking out tools used in the production of basic profiles
- Demonstration & individual practice in the following:
  - Micrometers, Verniers, Callipers, Slip Gauges (metric & imperial)

### ➤ Hand Tools and Machinery

- Demonstration and practice of the correct and safe use of files, chisels, hammers, saws, spanners, wrenches.
- Basic Work Bench Exercises.
- Demonstration and practice exercises on Radial drills, Cutting disk, pedestal grinders and any relevant machinery.

### ➤ Materials

- Description of the basic characteristics of materials:
- Ferrous and non-ferrous
- Non-metallic (plastics & fibers) and their application for given conditions

## Target Participants

The course would suit any individual working professionals or organizations who are interested in sending groups of staff for training. Ideally, participants shall be diploma holders and engineering graduates, working technicians, practicing supervisors, academicians and laboratory staff and engineers. In addition, the participants must have an adequate knowledge on basics hand tools and mechanical skills.

## Learning Outcomes

Necessary knowledge, skills and safe working practices to enable participants to safely undertake a range of fitting tasks in an industrial environment.