



Precision Engineering

Programme Outline

Module 1: Conventional Milling (20 hours)

- Interpret technical drawings of machine parts component drawn in the 1st and 3rd Angle Projection.
- Explain the safety precautions in operating the Vertical milling machines.
- Describe the types and applications of work holding devices used in milling machines.
- Mill components on a Vertical milling machine involving plain milling, drilling and boring, slot milling of T-slots and keyways and profile milling using rotary table.
- Perform routine maintenance on the Vertical milling machines.
- Practical Assignments.

Module 2: Conventional Grinding (20 hours)

- Interpret technical drawings of machine parts component drawn in the 1st and 3rd Angle Projection.
- Explain the safety precautions in operating the Surface & Cylindrical grinding machines.
- Describe the types and applications of work holding devices used in the Surface & Cylindrical grinding machines.
- Grind components on a Surface & Cylindrical grinding machine involving flat and round surfaces. Prepare a grinding wheel for grinding operations.
- Perform routine maintenance on the Surface & Cylindrical grinding machines.
- Practical Assignments.

Module 3: Conventional Turning (20 hours)

- Interpret technical drawings of machine parts component drawn in the 1st and 3rd Angle Projection.
- Explain the safety precautions in operating the Centre lathe machines.
- Describe the types and applications of work holding devices used in the Centre lathe,
- Turn components on a Centre lathe involving parallel turning, drilling and boring, taper, thread-cutting and profile turning.
- Perform routine maintenance on the Centre lathe.
- Practical Assignment.

Duration: 60 Hours

Course fee per participant: \$850.00

Test fee per participant : \$370.00