

COURSE TITLE: FITTING AND TURNING PHASE 1

COURSE DURATION : 12 Weeks

TARGET POPULATION: 1st year Apprentices

COURSE CONTENT : This course is designed to enable the trainee to get a good basic grounding and expose him to the skills and machinery that he must use in the trade. Identify engineering metals, their characteristics and applications, and common metal tests and treatments used in engineering.

- Select, use and care for engineering measuring equipment.
- Select, use and care for engineering power tools.
- Select, use and care for engineering hand tools.
- Perform basic welding / joining of metals.
- Mark of basic engineering shapes.
- Read, interpret and produce basic engineering drawings.
- Maintain static seals in machines and / or equipment.
- Maintain indirect drives.
- Maintain pipe systems.
- Perform routine maintenance.
- Sling loads.
- Operate and monitor a drilling machine to produce simple components.
- Operate and monitor a milling machine to produce simple components.
- Operate and monitor a lathe to produce simple components.

COURSE TITLE: FITTING AND TURNING PHASE 2

COURSE DURATION: 12 WEEKS

TARGET POPULATION: 2nd Year Apprentices who have successfully completed Phase 1 or individuals who have been recommended for this course as a result of an assessment conducted at this Centre.

COURSE CONTENT:

- Produce components by performing engineering milling operations.
- Produce components by performing engineering turning operations.
- Produce components by performing engineering grinding operations.
- Grind tools and drill bits.
- Maintain bearings in machines and equipment.
- Maintain pumps.
- Maintain direct drives.
- Maintain dynamic seals in machines and equipment.
- Maintain brakes and clutches.
- Maintain lubricating systems.
- Maintain conveyor systems.
- Maintain gearboxes.
- Maintain safety valves.

COURSE TITLE: FITTING AND TURNING PHASE 3

COURSE DURATION : 11 WEEKS

TARGET POPULATION: 3rd or 4th year Apprentices who have successfully completed the Phase 2 Apprentice course and are eligible to attempt the National Trade Test.
Individuals who have been in this trade for more than 5 years and have successfully completed an assessment conducted at this Centre.

COURSE CONTENT:

- Produce complex components using milling machines.
- Produce complex components using lathes.
- Maintain hydraulic systems.
- Maintain pneumatic systems.
- CNC Machining.