



Mechanical Fitting Apprenticeship

PHASE 1

DURATION: 12 WEEKS

Target Population

1st year Apprentice

Pre-Requisites:

Standard 8/Grade 10 with Mathematics and Science

PHASE 2

DURATION: 9 WEEKS

Target Population

2nd year Apprentices

Pre-Requisites:

Completed Phase 1
Passed Assessment test
recommended at DSTT

PHASE 3

DURATION: 8 WEEKS

Target Population

3rd/4th year Apprentices

Pre-Requisites:

Completed Phase 2,
Eligible to attempt
National trade Test,
Passed Assessment

Course content

- Induction to DSTT
- 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.

This course is predominantly machine tool orientated and exposes the trainee to the following:

- ∴ 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.
 - Laser alignment.

Individual must have more than 5 years experience in this trade

- Maintain pneumatic systems.
- Maintain hydraulic systems.
- Commission and assembly of machinery.
 - Advanced hand skills.
 - Reinforcement of best practices for alignment, brakes and bearings