



PHASE 1

DURATION: 10 WEEKS

Target Population

1st year Apprentice
Plater/Welder

Pre-Requisites:

Standard 8/Grade 10 with
Mathematics and Science

PHASE 2

DURATION: 8 WEEKS

Target Population

2nd year Apprentices

Pre-Requisites:

Completed Phase 1
Passed Assessment test
recommended at DSTT

PHASE 3

DURATION: 7 WEEKS

Target Population

3rd/4th year Apprentices

Pre-Requisites:

Completed Phase 2
Passed Assessment at
DSTT, eligible to attempt
National trade Trest

Course content

- Induction to DSTT
- Identify and interpret Engineering Drawings.
- Identify Engineering Materials and their treatment.
- Identify Basic Hand and measuring Tools and their uses.
- Identify Profiles, Plates and prepare a Material List.
- Identify Workshop equipment and its uses.
- Apply Basic Hand Skills.
- Identify Arc and gas Welding Equipment.
- Apply fundamentals of Arc Welding.
- Apply fundamentals of Gas Welding and Brazing.
- Apply fundamentals of Gas Cutting.
- Draw geometric constructions and apply Marking off techniques.
- Lift and move equipment (Rigging).

- Apply construction techniques to cones.
- Apply construction techniques to components.
- Apply construction techniques to pipes.
- Apply construction techniques to flat bar rings.
- Weld metal using arc welding equipment.
- Weld metal using gas welding equipment.
- Weld metal using MIG equipment.
- Weld metal using TIG equipment.
- Apply special welding processes

- Development and fabrication using radial line method.
- Development and fabrication using parallel line method.
- Development and fabrication using triangulation.
- Development and fabrication using cutting planes.
- Structural steel work