



PHASE 1

DURATION: 10 WEEKS

PHASE 2

DURATION: 5 WEEKS

PHASE 3

DURATION: 6 WEEKS

Target Population

1st year Apprentice
Plater/Welder

Pre-Requisites:

Standard 8/Grade 10 with
Mathematics and Science

Target Population

2nd year Apprentice Welder

Pre-Requisites:

Completed Phase 1
Passed Assessment test
recommended at DSTT

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).

- Gas Metal Arc Welding – butt welds
- Gas Metal Arc Welding – fillet welds
 - Shielded metal arc welding – butt welds
 - Shielded metal arc welding – fillet welds
 - Oxy /acetylene gas welding – butt welds
 - Oxy /acetylene gas welding – fillet welds
- Oxy /acetylene brazing – 1G butt weld
 - Aluminium welding (GTAW)
- Pipe welding – GTAW – 2” pipe – roll weld
 - Pipe welding – GTAW / MMAW – 6G

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