



**SHUKELA TRAINING CENTRE**  
31 Sugar Mill Way, Mount Edgecombe, 4300  
P.O. Box 23, Mount Edgecombe, 4300  
Telephone: +27 31 508 7700  
Facsimile: +27 31 502 3520  
Website: [www.sasa.org.za](http://www.sasa.org.za)

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**COURSE TITLE** : WELDER PHASE 1

**COURSE DURATION** : 10 WEEKS

**TARGET POPULATION** : 1st year Apprentice Plater/Welder with a suggested minimum educational level of Standard 8 with Mathematics and Science.

**COURSE CONTENT** :

- Induction to Shukela Training Centre
- 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).



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**COURSE TITLE** : WELDER PHASE 2

**COURSE DURATION** : 5 WEEKS

**TARGET POPULATION** : 2nd year Apprentices who have successfully completed the Phase 1 Apprentice Welding course or have been recommended for this course as a result of an Assessment test conducted at this Centre.

**COURSE CONTENT** :

- 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.
- Apply special cutting processes.
- Weld pipes –TIG root run – MMAW fill and cap



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**COURSE TITLE** : WELDER PHASE 3

**COURSE DURATION** : 6 WEEKS

**TARGET POPULATION** : 3rd and 4th year Apprentices who have completed the Phase 2 Apprentice Welders course or an assessment conducted at this centre and are eligible to attempt the National Trade Test.

**COURSE CONTENT** :

- 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