**COURSE TITLE:** PLATER/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 (Basic Rigging).

**COURSE TITLE:** PLATER/WELDER PHASE 2

**COURSE DURATION :** 9 WEEKS

**TARGET POPULATION:** 2nd year Apprentice Plater / Welders who have successfully

completed the Phase 1 Apprentice course or have been

 recommended for this course as a result of the Assessment

 Test conducted at this Centre.

**COURSE CONTENT :**

* Apply construction techniques to cones.
* Apply construction techniques to components.
* Apply construction techniques to pipes.
* 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.

**COURSE TITLE:** PLATER/WELDER PHASE 3

**COURSE DURATION :** 9 WEEKS

**TARGET POPULATION:** Apprentices who have :

 3rd or 4th year Apprentices who have successfully completed the

 Phase 2 Apprentice Plater/Welder 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 attempted an Assessment Test conducted at this

 Centre.

**COURSE CONTENT :**

* 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
* Arc welding (positional)
* Gas welding
* Bronze welding
* Aluminium welding (Tig)