

REGISTERED

ACCREDITED | RECOMMENDED

DHET REG No: 2016/FE07/004 EXAM No: 899992837

QCTO ACC No: NATED/2015/0179 UMALUSI ACC No: FET00630PA Mictseta ACC No: 2015/07/0029

Tel: 011 333 6479 | Email: [admin@mbowa.edu.za](mailto:admin@mbowa.edu.za) | Web: [mbowacollege.co.za](http://mbowacollege.co.za)

## SCHOOL OF ARTISAN SKILLS: OCCUPATIONAL CERTIFICATE: WELDING L4

SAQA ID:651202000 Exit Level:Level 4 Credits:130

### COURSE OUTLINE:

The purpose of this qualification is to prepare a learner for the occupation of Welder that includes: Join metal products in accordance with Welding Procedure Specifications using an electric arc or gas welding process. Of specific importance is the fact that this qualification elevates training of Welders in South Africa to accepted international standards.

### Knowledge Modules

- Introduction to the welding trade, NQF Level 2, 2 Credits.
- Occupational Safety, Health and Environmental Protection, NQF Level 2, 4 Credits.
- Welding schematics, calculations, welds and welded joints, NQF Level 2, 6 Credits.
- Weld imperfections, NQF Level 2, 2 Credits.
- Cutting and gouging, NQF Level 2, 2 Credits.
- Welding consumable classification and handling, NQF Level 2, 4 Credits.
- Metals and weldability of metals, NQF Level 3, 8 Credits.
- Fusion welding, NQF Level 3, 6 Credits.
- Arc welding, NQF Level 3, 8 Credits.
- Gas welding and cutting, NQF Level 3, 4 Credits.
- Welding codes, standards and parameters, NQF Level 4, 6 Credits.
- Shrinkage, residual stress and distortion, NQF Level 4, 4 Credits.
- Manual Metal Arc, MMA welding process, NQF Level 4, 7 Credits.
- The Metal Inert Gas/Metal Active Gas/Flux Cored Arc, MIG/MAG/FCAW welding process, NQF Level 7, 7 Credits.
- Manual Metal Arc, MMA welding process, NQF Level 4, 7 Credits.
- Welding inspection and quality, NQF Level 4, 4 Credits. Health, Safety, Quality and Legislation, NQF Level 3, 3 Credits.

### Practical Skill Modules

- Fabricate simple components or work pieces, NQF Level 2, 4 Credits.
- Cut, gouge and gas weld material manually, NQF Level 2, 12 Credits.
- Perform fillet welds using the Shielded Metal Arc Welding process, NQF Level 3, 12 Credits.
- Perform fillet welds using the Gas Metal Arc Welding process, NQF Level 3, 12 Credits.
- Perform fillet welds using the Gas Tungsten Arc Welding process, NQF Level 3, 16 Credits.
- Perform plate butt welds using the Shielded Metal Arc Welding process, NQF Level 4, 16 Credits.
- Perform plate butt welds using the Gas Metal Arc Welding process, NQF Level 4, 16 Credits.
- Perform plate butt welds using the Gas Tungsten Arc Welding process, NQF Level 4, 16 Credits.
- Perform pipe welds using the Shielded Metal Arc Welding process, NQF Level 4, 16 Credits.
- Perform pipe welds using the Gas Metal Arc Welding process, NQF Level 4, 16 Credits.
- Perform pipe welds using the Gas Tungsten Arc Welding process, NQF Level 4, 20 Credits.

### Work Experience Modules

- Cut and gouge a range of materials in the workplace, NQF Level 2, 8 Credits.
- Produce a range of fillet welds using various welding processes in a workplace, NQF Level 4, 40 Credits.
- Care for, control and handle consumables and materials in a workshop, NQF Level 2, 4 Credits.
- Produce a range of plate welds using various welding processes in a workplace, NQF Level 4, 40 Credits.
- Team work, communication and reporting in the workplace, NQF Level 3, 8 Credits.
- Produce a range of pipe welds using various welding processes in a workplace, NQF Level 4, 52 Credits.

### Entry Requirements:

· Grd10 Statement or its equivalence

### Duration:

2 Years

**Certification Body:** QCTO

### FEES STRUCTURE

Fees Per Level (N)	TUITIONS & EXAMS (per subject repeated)	EXAM ONLY (Once off payment) per subject repeated
Registration: R1000 Deposit Fees: R1500 Monthly Inst: R1200X24 <b>TOTAL R31300.00</b>	<ul style="list-style-type: none"> <li>• Registration: R1000</li> <li>• Monthly Inst:</li> </ul>	<ul style="list-style-type: none"> <li>• Registration: R1000 + R1000 p/s</li> </ul>

### BANKING DETAILS:

NED BANK

Mbowa College PTY LTD

Account No: 1169745628

Ref: Student Surname and Name

### Please Note:

Continuing Students Do Not Pay Registration And Deposit Fees



**078 916 1916 / 081 411 9885**