



MAURITIUS QUALIFICATIONS AUTHORITY

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NATIONAL CERTIFICATE

LEVEL 3

IN

SHEET METAL FABRICATION

NATIONAL CERTIFICATE LEVEL 3 IN SHEET METAL FABRICATION

1. **Level:** 3
2. **Credits:** 120
3. **Review Date:** June 2021
4. **Access to qualification**

4.1 Entry Information

National Certificate of Education [NCE]

4.2 Recognition of Prior Learning [RPL]

Potential candidates holding at least 3 years of working experience in the relevant field may access this qualification through Recognition of Prior Learning (RPL) process.

5. Award of Qualification Requirements

Compulsory

All the unit standards listed are required:

Unit No.	Unit Standard Title	Level	Credit
me/07/0001/03	Demonstrate knowledge of trade calculations and units for mechanical engineering trades	3	4
me/07/0002/03	Demonstrate knowledge of basic mechanics for mechanical engineering trades	3	3
me/04/0003/03	Demonstrate knowledge of fasteners used in mechanical engineering	3	2
me/04/0004/03	Demonstrate knowledge of safety on engineering worksites	3	1
me/04/0005/03	Shift loads in engineering installation, maintenance, and fabrication work	3	3
me/04/0006/03	Draw and interpret engineering sketches under supervision	3	4
me/04/0008/03	Demonstrate basic knowledge of engineering metals	3	5
me/07/0003/03	Select, use, and care for simple measuring devices used in engineering	3	3
me/07/0004/03	Select, use, and care for engineering dimensional measuring equipment	3	4
me/07/0005/03	Select, use, and care for engineering marking-out equipment	3	5

Unit No.	Unit Standard Title	Level	Credit
me/07/0006/03	Demonstrate basic engineering workshop skills under close supervision	3	12
me/07/0007/03	Perform basic fabrication operations under supervision	3	12
me/02/0001/03	Select, use and care for, engineering hand tools	3	3
me/07/0008/03	Select, use and maintain portable hand held engineering power tools	3	3
th/03/0022/03	Read texts for practical purposes	3	4
me/07/0009/03	Develop fabrication patterns for simple three-dimensional objects	3	8
me/07/0010/03	Lay out and mark off light fabrication shapes	3	7
me/07/0011/03	Cut, form and shape sheet metal	3	6
me/03/0001/03	Weld steel sections with the manual metal arc welding process in downhand positions	3	4
me/03/0002/03	Join metals with the oxyacetylene welding process	3	6
me/03/0003/03	Join metals using torch brazing and soldering	3	6
me/03/0004/03	Join metals with the resistance welding process	3	6
me/03/0007/03	Cut metals using manual thermal processes	3	6
me/03/0012/03	Assemble work pieces in jigs (minor amendments include the use of manipulators)	3	3
	Total		120

6. Purpose:

This qualification represents a set of foundation skills for sheet metal work.

Holders of this qualification have the following skills and knowledge relevant to the sheet metal work industry:

- health and safety;
- trade mathematics and mechanics;
- metals and other materials used in engineering;
- fasteners and assembly;
- sketching;
- measurement;
- engineering tools;
- machining or fabrication operations; and
- welding safety and procedures.