

	Unit ID: 238
Domain	METAL FABRICATION -CORE
Title:	cut mild steel using oxy-acetylene cutting equipment as part of metal fabrication operations
Level: 2	Credits: 2

Purpose

This unit standard is intended for those who cut mild steel using oxy-acetylene cutting equipment as part of metal fabrication operations. People credited with this unit standards are able to prepare mild steel and equipment; cut mild steel to specification using oxy-acetylene cutting equipment.

This unit standard is intended for those who works as Welders and Boilermakers

Special Notes

1. Entry information

Prerequisite:

- *Unit 228* - Apply safety rules and regulations in a metal fabrication work environment or demonstrated equivalent knowledge and skills.
 - *Unit 229 – Plan and organize metal fabrication*
2. To demonstrate competence, at a minimum, evidence is required of cutting two work pieces to requirements using oxy-acetylene cutting equipment. These tasks should be performed ensuring correct identification of requirements and finishing of the tasks, correct selection and use of appropriate processes, tools and equipment and completing all work to specification.
3. Assessment evidence may be collected from a real workplace or a simulated real workplace or simulated realistic environment in which welder and boilermaker operations are carried out.
4. Performance of all elements in this unit standard must comply with manufacturers' specifications and workplace specific requirements.
5. '*Specifications*' refer to any or all of the following: manufacturers' specifications and recommendations, site and workplace specific requirements.
6. Regulations and legislation relevant to this unit standard include the following:
- Labour Act 11 of 2007 and all subsequent amendments.
 - Occupational Health and Safety Regulations No. 18, 1997

Quality Assurance Requirements

This unit standard and others within this Subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority and the Namibia Training Authority on www.nta.com.na

Elements and Performance Criteria

Element 1: Prepare mild steel and equipment

Performance Criteria

- 1.1 Cutting instructions are determined using specifications and drawings.
- 1.2 Material is cleaned in accordance with workplace procedures.
- 1.3 Material is prepared and positioned using appropriate tools and techniques.
- 1.4 Equipment is assembled, inspected and set up in accordance with workplace procedures.

Element 2: Cut mild steel to specification using oxy-acetylene cutting equipment

Range

Safety clothing and personal protective equipment is to include cutting goggles, skull caps, leather aprons, leather gloves, leather spats, safety boots and overalls.

Performance Criteria

- 2.1 Risks associated with oxy-acetylene equipment are identified and minimised prior to commencing of work.
- 2.2 Equipment start up procedure is implemented in line with manufacturer's and workplace requirements.
- 2.3 Appropriate safety clothing and personal protective equipment is selected, inspected and used as specified in line with workplace procedures.
- 2.4 Mild steel is cut in accordance with work instructions and drawing requirements.
- 2.5 Equipment shut down procedure is implemented in line with manufacturers' and workplace requirements.
- 2.6 Cut material is inspected for conformity with work instructions and job requirements.

Registration Data

Subfield:	Manufacturing Engineering
Date first registered:	29 November 2018
Date this version registered:	29 November 2018
Anticipated review:	2023
Body responsible for review:	Namibia Training Authority