



Welding Application and Practice

NQF Level 2 - SAQA ID: 58534 (158 Credits)



12 months



R 31 500 Ex 15% VAT per learner



Onsite (min of 10 delegates)

About this Learnership

The purpose of this Qualification is to provide learners with the standards and the range of learning required to work effectively in the welding industry and to meet the challenges of such an environment.

*Please note: This option is available as an RPL (Recognition of Prior Learning) Learnership.

The welding industry operates in a competitive and challenging environment. The finished processes have to respond to a variety of exacting customer and consumer requirements. In addition, the industry has to respond to International competition and environmental issues.

What learners achieve in this qualification will serve as the basis for further learning where they will further develop their skills and knowledge, but most importantly it will enable learners to successfully participate in workplace activities.

What is needed before attending this learnership

- Communication at NQF Level 1
- Mathematical Literacy at NQF Level 1

Programme outcomes

- Use and apply mechanical and welding technology, techniques, processes and skills, as applied in the fabrication and welding industry, using appropriate tools and measuring equipment.
- Use and apply a variety of fillet welding, oxy-fuel cutting and oxy-fuel joining processes.
- Demonstrate knowledge of the welding industry and its productivity requirements, by applying appropriate work-procedures.
- Communicate effectively in order to achieve personal, business and organisational objectives.
(Range: Reading and interpreting work instructions, documents and drawings; maintaining effective relationships; exploring options for further learning).

***Qualification Certificates are issued by MERSETA**

Qualification Breakdown

	Unit Standard	Learning Unit /Module	NQF Level	Credits
Core	12219	Select, use and care for engineering power tools	2	6
Core	12476	Select, use and care for engineering measuring equipment	2	4
Core	14683	Apply work site practices	2	5
Core	14712	Identify and select material to specification	2	5
Core	14713 (253736)	Use welding definitions and symbols	2	5
Core	14722	Describe the welding industry's composition its productivity requirements and communication techniques	2	5
Core	119744	Select, use and care for engineering hand tools	2	8
Core	243063	Weld carbon steel work-pieces using the shielded metal arc welding process in the down-hand position	2	15
Core	243066	Weld carbon steel workpieces using the gas metal arc welding process in the down-hand position	2	8
Core	243067	Cut materials using the oxy-fuel gas cutting process (manual cutting)	2	6
Core	243068	Weld carbon steel workpieces using the gas tungsten arc welding process in the down hand position	2	15
Core	243069	Braze metals using the oxy-fuel brazing process	2	6
Core	243072	Weld workpieces using the oxy-acetylene gas welding process in the down hand position	2	10
Core	243076	Weld carbon steel workpieces using the cored-wire welding process in the down hand position	2	8
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	2	2
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	2	3
Fundamental	9007	Work with a range of patterns and functions and solve problems	2	5
Fundamental	9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	2	3
Fundamental	12444	Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2-dimensions in different life or workplace contexts	2	3
Fundamental	119454	Maintain and adapt oral/signed communication	2	5
Fundamental	119456	Write/present for a defined context	2	5
Fundamental	119460	Use language and communication in occupational learning programme	2	5
Fundamental	119463	Access and use information from texts	2	5
Elective	12484	Perform basic fire fighting	2	4
Elective	243056	Weld carbon steel workpieces using the shielded metal arc welding process in all positions	2	16
Elective	243064	Weld carbon steel workpieces, using the gas metal arc welding process in all positions	2	15



NB: It is the responsibility of the employer to complete and submit a learnership agreement to their relevant SETA for registration purposes. CBM Training will register the students on the National Learnership Database against the selected Qualification (Learnership).