

FINALISATION AND COMMISSIONING OF FABRICATED PRODUCTS

Duration:	5 days
Target:	Candidates competent in NQF Level 3
Prerequisite:	NQF Level 3
NQF Info:	NQF Level 4
Qualification:	Towards the National Certificate in Thermoplastic Fabrication NQF Level 4
Credits:	38
Certification:	merSETA-accredited Plastics SA Certification

Unit Standards

- Fabricate complex welded thermoplastic assemblies and shapes (14702, 28 credits)
- Commission and hand over thermoplastic fabrications (14708, 10 credits)

Objective of Learning Programme

To enable learners to understand fabrication raw material science, complete handling, commissioning and installation of fabrications, interpret engineering drawings, know the various SANS standards, realize project management and hand over projects.

Outcomes

At the end of the learning programme, learners will be able to

- Verify materials specified against the drawing or work instruction
- Prepare for development of procedure qualification records by a third party inspection authority
- Plan fabrication sequence and give instructions to workgroup members
- Weld and assemble complex assemblies and shapes and verify that tasks have been completed
- Identify and rectify welding and fabrication faults and complete records
- Verify conformance, test and hand over the final product
- Interact with working group member and client
- Verify fabrication against drawings and specifications
- Set up, test and verify performance of the fabrication assembly
- Gather and scrutinize all relevant quality records
- Identify faults, initiate and verify corrective actions
- Complete records and reports and generate handover certificates
- Liaise with client during the process and obtain client approval completion

Contents

- Science of fabrication raw materials
- Welding methods, installation, excavation, pipe laying and jointing, trenchless pipe installation, plastics failure and fabricated fittings
- Engineering drawing measurements, dimensions, line structure, scaling, orthographic and isometric projections, aspects of sectioning and the various SANS standards
- Client relations, writing a business proposal, control of inspection, measuring and test equipment, handling, storage, packaging and delivery, control of quality records, statistic techniques, project and site hand over

Assessment and Certification

- Workplace Experience Assignments to be submitted within two weeks following training. A Plastics|SA Certificate of Competence is issued to successful candidates.
- Relevant credits may be awarded to successful learners upon merSETA due approval process.