

Course Outline:**National Certificate in Mechanical Engineering, Pipe-Fitting,
Manufacturing and Engineering: NQF Level 3**-Course Code: C.C0018**Course Content**

ID	UNIT STANDARD TITLE	LEVEL	CREDITS
13234	Apply quality procedures	Level 3	8
253592	Identify, interpret and produce working pipe drawings	Level 4	6
13224	Monitor the application of safety, health and environmental protection procedures	Level 4	4
253587	Perform hydro-static pressure testing procedures on pipes and pipe systems	Level 4	6
253579	Produce advanced welded pipe-fabrication assemblies	Level 4	15
10981	Supervise work unit to achieve work unit objectives (individuals and teams)	Level 4	12
119472	Accommodate audience and context needs in oral/signed communication	Level 3	5
119457	Interpret and use information from texts	Level 3	5
119467	Use language and communication in occupational learning programmes	Level 3	5
119465	Write/present/sign texts for a range of communicative contexts	Level 3	5
9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	Level 4	6
119462	Engage in sustained oral/signed communication and evaluate spoken/signed texts	Level 4	5
119469	Read/view, analyse and respond to a variety of texts	Level 4	5
9016	Represent analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Level 4	4
119471	Use language and communication in occupational learning programmes	Level 4	5
7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	Level 4	6
119459	Write/present/sign for a wide range of contexts	Level 4	5
14783	Conform to and apply legislation and operational instructions in chemical processing	Level 3	4
253434	Maintain heat exchangers and pressure vessels	Level 3	8
253423	Maintain motorised valves	Level 3	4
253599	Maintain steam traps	Level 3	4
253439	Maintain valves	Level 3	8
13260	Perform non-destructive tests on metal parts and components	Level 3	6
114194	Demonstrate understanding of regulations codes and drawing office practices for structural steel detailing	Level 4	7
12252	Develop and fabricate from complex drawings	Level 4	28

14473	Develop and produce computer aided drawings	Level 4	4
119328	Perform and coordinate a pipeline network start-up	Level 4	20
119327	Perform pipeline network shut-down	Level 4	12
253735	Plan and schedule workflow	Level 4	3
13329	Stopples operational pipelines	Level 4	16