



All qualifications and part qualifications registered on the National Qualifications Framework are public property. Thus the original material for profit. If the material is reproduced or quoted, the South African Qualifications Authority (SAQA) should be acknowledged.

SOUTH AFRICAN QUALIFICATIONS AUTHORITY
REGISTERED QUALIFICATION:

Further Education and Training Certificate: Supervision of Construction Processes

SAQA QUAL ID		QUALIFICATION TITLE		
65949		Further Education and Training Certificate: Supervision of Construction Processes		
ORIGINATOR				
SGB Civil Engineering Construction				
PRIMARY OR DELEGATED QUALITY ASSURANCE FUNCTIONARY			NQF SUB-FRAMEWORK	
CETA - Construction Education and Training Authority			QQSF - Occupational Qualifications Sub-framework	
QUALIFICATION TYPE	FIELD		SUBFIELD	
Further Ed and Training Cert	Field 12 - Physical Planning and Construction		Physical Planning, Design and Management	
ABET BAND	MINIMUM CREDITS	PRE-2009 NQF LEVEL	NQF LEVEL	QUAL CLASS
Undefined	181	Level 4	NQF Level 04	Regular-Unit Stds Based
REGISTRATION STATUS		SAQA DECISION NUMBER	REGISTRATION START DATE	REGISTRATION END DATE
Reregistered		SAQA 06120/18	2018-07-01	2023-06-30
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2024-06-30		2027-06-30		

In all of the tables in this document, both the pre-2009 NQF Level and the NQF Level is shown. In the text (purpose statements, qualification rules, etc), any references to NQF Levels are to the pre-2009 levels unless specifically stated otherwise.

This qualification does not replace any other qualification and is not replaced by any other qualification.

PURPOSE AND RATIONALE OF THE QUALIFICATION

Purpose:

Learners found competent against this Qualification will be able to execute the supervision of construction processes in a specific civil engineering context.

For those with extensive experience in the workplace, this Qualification can be used in the recognition of prior learning process to assess and recognise workplace skills acquired without the benefit of formal education and training.

For the new entrant, this Qualification describes the learning outcomes required to effectively participate in a structured workplace.

For education and training providers, this Qualification provides guidance for the development of appropriate learning programmes and assessment documentation.

For employers, this Qualification enables skills gaps to be identified and addressed ensuring that productivity levels are increased and business objectives achieved.

This Qualification has been developed to provide flexibility and mobility/portability across the construction industry. This will allow for future career advancement across the various learnerships in the supervision of construction processes.

Qualifying learners will be capable of:

-] Applying occupational health, safety and environmental legislation and procedures in construction supervision.
-] Applying information from contract documentation, drawings and specifications to set out a construction site and supervise construction activities.
-] Supervising construction work teams and their activities.

Rationale:

This unit-standards based qualification has been generated to provide further education, training and development for learners who have successfully achieved the competencies to perform one or more of the various specialised functions involved in civil engineering construction (NQF Levels 2 and 3).

These specialised functions include sub-disciplines of building construction, road works, water and waste water, earthworks, labour intensive construction and other civil engineering construction contexts. This qualification will therefore serve to develop learners who have already acquired the necessary skills to perform civil engineering construction functions and wish to develop the required supervision skills. It may also serve learners who wish to enter the civil engineering construction industry at supervisory level and for those wishing to have their supervisory experience recognised via the process of recognition of prior learning.

While this NQF Level 4 qualification is intended to build upon previous learning, it is also intended to provide a foundation for further learning in civil engineering construction management. This Further Education and Training Certificate (FETC) in Construction Processes Supervision will serve to develop a professional pool of first line managers who perform supervisory functions in one or more civil engineering contexts. Typical job roles related to this qualification include foreman, supervisor, section manager and superintendent, depending on the type and size of the construction organisation. The qualification reflects the skills and knowledge required to be an effective supervisor in the Construction Industry in micro, small, medium or large operations.

The qualification consists of generic supervisory competencies, generic technical competencies, as well as "supervisory technical expertise" required in a specific context. The latter reflects the technical working knowledge and skills required to supervise a specific area of activity. The various areas of supervision are reflected in the elective component of the qualification.

The employability and career prospects of learners can therefore be enhanced by this qualification.

Previously disadvantaged individuals with this qualification can take a supervisory role in Industry: a process that will accelerate economic transformation and provide economic empowerment.

The benefits to the economy is that quality supervision in the Construction Industry will result in improved productivity, quality, safety and cost efficiency - thus improving service delivery of infrastructure.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is recommended that learners wishing to access this qualification will be competent in the following:

-)] Communication at NQF Level 3.
-)] Mathematical literacy at NQF Level 3.
-)] Computer Literacy at NQF Level 3.

Recognition of Prior Learning (RPL):

This qualification may be obtained in part or as a whole through the process of Recognition of Prior Learning (RPL). Learners who have met the requirements of any Unit Standard in this Qualification may apply for recognition of prior learning to the relevant Education and Training Quality Assurance Body (ETQA), and will be assessed against the assessment criteria and specific outcomes for the relevant Unit Standard/s.

Access to the Qualification:

-)] Access to this qualification is open, however, the learning assumptions listed below must be considered.

RECOGNISE PREVIOUS LEARNING?

Y

QUALIFICATION RULES

In order to be awarded the Qualification, the learner has to prove competence in the entire Fundamental and Core Unit Standards, as well as a minimum of 10 credits from the elective list.

-)] Fundamental: 56 Credits.
-)] Core: 115 Credits.
-)] Min. Electives: 10 Credits.

Minimum total: 181 Credits.

The minimum of 10 credits to achieve from the elective component should represent at least one of the following areas of civil engineering construction supervision:

-)] General Civil Engineering Construction.
-)] General Structures Construction.
-)] Concreting.
-)] Concrete Reinforcing.
-)] Access Scaffolding and formwork.
-)] Structural steel.
-)] Jacking.
-)] Piling.
-)] Road and rail formation.
-)] Earthworks.
-)] Drainage.
-)] Water and sanitation.
-)] Road works.
-)] Building construction.
-)] Labour Intensive Construction.

EXIT LEVEL OUTCOMES

1. Apply occupational health, safety and environmental legislation and procedures in construction supervision.
2. Apply information from contract documentation, drawings and specifications to set out a construction site.
3. Supervise construction activities.

ASSOCIATED ASSESSMENT CRITERIA

Associated Assessment Criteria for Exit Level Outcome 1:

- 1.1 Health, safety and preventative measures for hazards are explained in relation to a construction site.
- 1.2 A health and safety site plan, systems and procedures are developed, implemented and monitored according to legislation, regulations, by-laws and organizational procedures.
- 1.3 Environmental management initiatives are implemented during the pre-construction, construction and post-construction phases of a project according to relevant legislation and organizational procedures.

Associated Assessment Criteria for Exit Level Outcome 2:

- 2.1 The scope, structure and scope of the construction industry is analysed in terms of its activities and impact on the South African economy.
- 2.2 The interface between drawings, specifications, the bill of quantities and general conditions of contract is explained in terms of the contract/project documentation.
- 2.3 Information from construction drawings and specifications are extracted and applied to set out a construction site and supervise construction activities.
- 2.4 Construction work areas are set out using measuring tape, spirit level and theodolite according to drawings and construction project requirements.

Associated Assessment Criteria for Exit Level Outcome 3:

- 3.1 The planning, implementation and monitoring of a project quality plan are supervised according to the criteria in the project quality plan and organizational procedures.
- 3.2 Construction teams are recruited and developed according to Human Resource procedures and policies and supervised according to organizational procedures.
- 3.3 Human, materials and equipment resources are calculated, coordinated and monitored in relation to a civil engineering construction project requirements.
- 3.4 The requisition, receipt, storage and use of construction materials are supervised according to safety requirements and specifications.
- 3.5 Team activity production outputs are measured, recorded and productivity improvement measures are implemented according to organizational procedures.

Integrated Assessment:

Integrated assessment at the level of the qualification provides an opportunity for learners to show that they are able to integrate concepts, principles and practice across unit standards to achieve competence that is grounded and coherent in relation to the purpose of the qualification. Integrated assessment should show how already demonstrated competence in individual areas can be linked and applied for the achievement of a holistic outcomes as described in the exit level outcomes.

Integrated assessment must judge the quality of the observable performance, and also the quality of the thinking that lies behind it. Assessment tools must encourage learners to give an account of the thinking and decision-making that underpin their demonstrated performance. Some assessment practices will demand practical evidence while others may be more theoretical, depending on the type of outcomes to be assessed. The ratio between action and knowledge is not fixed, but varies according to the demands of the particular exit level outcome of the qualification.

While the generic components of this qualification at NQF Level 4 can be assessed through occupational contexts and activities relating to Construction Processes, care must be taken in both the learning programme and the assessment to ensure that these foundational skills are portable. The primary aim of this qualification is to ensure that learners have a sound general foundation to prepare them for further learning towards a specialised role in their chosen career path. Learners must be able to transfer generic skills across a number of different contexts, and apply them within a number of learning areas.

A broad range of task-orientated and theoretical assessment tools may be used, with the distinction between practical knowledge and disciplinary knowledge maintained so that each takes its rightful place.

INTERNATIONAL COMPARABILITY

While the approach to education and training in construction supervision varies across many countries, the nature and extent of required competencies does compare favourably. The depth of study varies as is illustrated by the mode and duration or learning time. There are offering for full-time students and part-time students as well as on-line and distance learning. Courses include certificates, diplomas, associate degrees, awards and short courses/programmes.

Qualifications that offered a holistic approach for construction supervision from the following countries were evaluated as the approach and purpose compared closely:

-)] New Zealand.
-)] United Kingdom.
-)] United States of America.

No equivalent qualifications were found to be offered by African countries as illustrated by the searches conducted at the following Authorities:

-)] Technical, Entrepreneurial and Vocational Education and Training Authority (TEVETA) of Malawi.
-)] Vocational Education and Training Authority (VETA) of Zambia.
-)] Botswana Training Authority (BOTA) of Botswana.

New Zealand:

The National Certificate in Civil Construction Supervision (Level 4) for 188 credits compares closely with the South African equivalent FET Certificate in Construction Supervision as the level of complexity is the same; the purpose, duration of study and elective contexts are very similar. These industry sectors include Earthworks, Civil Plant Management, Road Construction and Road Maintenance.

The following detailed comparison between the outcomes of the qualification excludes the fundamental component of the South African qualification. The following core unit standards of the New Zealand qualification compares closely with this qualification:

-)] 6442: Supervise civil construction activities on a single site, Level 4 (10 credits).
-)] 6456: Organise the supply and storage of materials for civil construction, Level 3 (4 credits).
-)] 22294: Set out levels and positions in civil construction projects, Level 4 (10 credits).
-)] 6428: Demonstrate knowledge of engineering survey and set-out for civil construction work, Level 4 (20 credits).
-)] 6455: Supervise civil construction subcontractors, Level 4 (8 credits).
-)] 22992: Prepare and maintain records for civil construction works, Level 4 (10 credits).
-)] 22290: Demonstrate knowledge of quality assurance requirements on civil construction works, Level 3 (3 credits).

The competencies described in the following unit standards are not evident in the core of the South African qualification:

-)] 6436: Inspect civil construction plant and equipment, Level 4 (5 credits).

J 12568: Plan and supervise site drainage and dewatering work on civil construction sites, Level 4 (8 credits).

J 6434: Liaise with client, consultant, and service authority on behalf of civil construction contractor, Level 4 (12 credits).

United Kingdom:

The Level 3 NVQ in Construction Site Supervision (500/3765/1) represents an equivalence with the South African qualification in terms of purpose, level, duration and elective contexts. This qualification has been designed for those working in Construction Site Supervision.

To achieve the award candidates must follow one of five optional routes which cover Building and Civil Engineering; Highways Maintenance & Repair, Residential Development, Conservation or Demolition. The units for all five routes cover areas such as working relationships, implementation of health and safety systems, controlling quality, progress and cost, work methods and use of resources.

The following six mandatory units all compare with the South African qualification at the level of unit standards, specific outcomes or assessment criteria:

J R/104/0559 - Maintain Systems for Health, Safety, Welfare and Environmental Protection.

J J/104/0560 - Assess and Recommend Work Methods.

J L/104/0561 - Plan Work Activities and Resources to Meet Work Requirements.

J R/104/0562 - Co-ordinate Work Control.

J Y/104/0563 - Control Work Progress Against Agreed Programmes.

J D/104/0564 - Allocate and Monitor the Use of Plant, Equipment or Machinery.

The following mandatory units also correspond with some of the competencies described in the core and elective South African unit standards:

J T/103/1191 - Develop and Maintain Good Working Relationships.

J H/104/0565 - Maintain Supplies of Materials to Meet Project Requirements.

J K/104/0566 - Implement Communication Systems for the Project.

J M/104/0567 - Maintain the Dimensional Accuracy of the Work.

J T/104/0568 - Control Work Against Agreed Quality Standards.

J A/104/0569 - Contribute to Controlling Work Quantities and Costs.

J M/104/0570 - Co-ordinate Preparation for Site Operations.

J A/104/0507 - Allocate Work and Check People's Performance.

United States of America:

The construction supervision certificate offered by Cumberland County College, New Jersey prepares students for entry-level supervisory positions with all types of construction companies. These positions require a working knowledge in many areas including finance, marketing and sales, management, estimating, scheduling, cost control and monitoring safety programs. This program is designed to develop supervisors, not technicians.

The program requirements describe the achievement of 67 credits of which the following core component represents 45 credits. The following core components compare favourably with the South African qualification:

J CM107: Construction Contract Documents.

J CM114: Management of Field Operations.

J CM120: Construction Methods.

J CM121: Construction Drawings.

J CM128: Construction Materials.

J CM131: Construction Safety.

J CM206: Construction Estimating.

J CME: Construction Supervision Electives.

The competencies of the following unit titles are not catered for in the South African qualification:

-)] BU115: Introduction to Business.
-)] CS102: "M" Applications on the Microcomputer.
-)] CM137: Residential & Commercial Building Codes.
-)] CM111: Construction Office Management.

Conclusion:

It is evident from the forgoing comparison that the FET Certificate in Construction Supervision generated for the South African context compares closely with the above examples. The close similarity in the core component of the qualifications is detailed above. The approach to the electives is also similar with clusters of units that must be achieved for any one of the range of civil engineering contexts of the learner's choice.

ARTICULATION OPTIONS

Vertical articulation is possible with the following:

-)] ID 23675: National Certificate: Management of Construction Processes, NQF Level 5.
-)] ID 48636: National Diploma: Structural Steelwork Detailing, NQF Level 5.

Horizontal articulation is possible with the following:

-)] ID 48817: National Certificate: Construction Materials Testing, NQF Level 4.
-)] ID 66071: Further Education and Training Certificate: Computer Aided Drawing Office Practice, NQF Level 4.

MODERATION OPTIONS

)] Anyone assessing a learner or moderating the assessment of a learner against the qualification must be registered as an assessor with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.

)] Any institution offering learning that will enable the achievement of this qualification must be accredited as a provider with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.

)] Assessment and moderation of assessment will be overseen by the relevant Education, Training, Quality, Assurance (ETQA) Body, or by an ETQA that has a Memorandum of Understanding with the relevant ETQA, according to the ETQA's policies and guidelines for assessment and moderation.

)] Moderation must include both internal and external moderation of assessments, unless ETQA policies specify otherwise. Moderation should also encompass achievement of the competence described in the associated unit standards.

)] Anyone wishing to be assessed against this qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

N/A

REREGISTRATION HISTORY

As per the SAQA Board decision/s at that time, this qualification was Reregistered in 2012; 2015.

NOTES

N/A

UNIT STANDARDS:

	ID	UNIT STANDARD TITLE	PRE-2009 NQF LEVEL	NQF LEVEL	CREDITS
Core	263267	Analyse the nature and scope of the construction industry	Level 4	NQF Level 04	4
Core	263264	Calculate construction quantities and develop a work plan	Level 4	NQF Level 04	8
Core	114218	Demonstrate an understanding and implement environmental initiatives on a construction project	Level 4	NQF Level 04	6
Core	262826	Implement a quality management system on a construction project	Level 4	NQF Level 04	16
Core	262844	Monitor and control cost and productivity of a construction project	Level 4	NQF Level 04	12
Core	263265	Perform site administration functions	Level 4	NQF Level 04	10
Core	116692	Plan, organise and control the erection, alteration/repositioning and dismantling of access scaffolding	Level 4	NQF Level 04	12
Core	262864	Read, interpret and use construction drawings and specifications	Level 4	NQF Level 04	10
Core	263266	Set out construction work areas	Level 4	NQF Level 04	10
Core	262845	Supervise construction teams	Level 4	NQF Level 04	5
Core	262884	Supervise health and safety on a construction project	Level 4	NQF Level 04	4
Core	263284	Supervise the use and storage of construction materials	Level 4	NQF Level 04	8
Core	15137	Apply contract documentation	Level 5	Level TBA: Pre-2009 was L5	10
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	Level 3	NQF Level 03	5
Fundamental	119457	Interpret and use information from texts	Level 3	NQF Level 03	5
Fundamental	119467	Use language and communication in occupational learning programmes	Level 3	NQF Level 03	5
Fundamental	119465	Write/present/sign texts for a range of communicative contexts	Level 3	NQF Level 03	5
Fundamental	9015	Apply knowledge of statistics and probability to critically interrogate and effectively communicate findings on life related problems	Level 4	NQF Level 04	6
Fundamental	7484	Describe, represent, analyse and explain changes in shape and motion in 2- and 3-dimensional space with justification	Level 4	NQF Level 04	4

Fundamental	119461	Make and motivate judgements on selected literary texts	Level 4	NQF Level 04	5
Fundamental	119469	Read/view, analyse and respond to a variety of texts	Level 4	NQF Level 04	5
Fundamental	119471	Use language and communication in occupational learning programmes	Level 4	NQF Level 04	5
Fundamental	7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	Level 4	NQF Level 04	6
Fundamental	119459	Write/present/sign for a wide range of contexts	Level 4	NQF Level 04	5
Elective	115862	Administer the hire contract	Level 3	NQF Level 03	4
Elective	8000	Apply basic business principles	Level 3	NQF Level 03	9
Elective	115873	Clean and maintain stock	Level 3	NQF Level 03	5
Elective	123259	Convey dangerous goods by road	Level 3	NQF Level 03	4
Elective	115872	Demonstrate an understanding of and apply security measures and maintain work area	Level 3	NQF Level 03	5
Elective	115860	Demonstrate an understanding of product and / or service details and information	Level 3	NQF Level 03	6
Elective	9532	Demonstrate basic knowledge of computers	Level 3	NQF Level 03	6
Elective	259879	Describe the interaction with internal departments and external sales support structures	Level 3	NQF Level 03	4
Elective	263245	Erect, use and dismantle access scaffolding	Level 3	NQF Level 03	5
Elective	262591	Finish off steel structure and explain hand over procedures	Level 3	NQF Level 03	6
Elective	115831	Foster and maintain customer service levels and relations	Level 3	NQF Level 03	4
Elective	262592	Guide the lifting and positioning of loads	Level 3	NQF Level 03	6
Elective	115880	Interact with customer to provide a complete hire service	Level 3	NQF Level 03	4
Elective	115878	Load and deliver stock	Level 3	NQF Level 03	5
Elective	8016	Maintaining occupational health, safety and general housekeeping	Level 3	NQF Level 03	8
Elective	115876	Monitor, control and co-ordinate the flow of stock	Level 3	NQF Level 03	4
Elective	13936	Outline the legal environment of a selected industry	Level 3	NQF Level 03	2
Elective	116940	Use a Graphical User Interface (GUI)-based spreadsheet application to solve a given problem	Level 3	NQF Level 03	6
Elective	114977	Use a spreadsheet package to produce and manage business documents	Level 3	NQF Level 03	3

Elective	259898	Advise customers to optimise choice and benefits	Level 4	NQF Level 04	7
Elective	229994	Assess a worksite for work at height and prepare a fall protection plan	Level 4	NQF Level 04	3
Elective	116574	Assess appearance, durability and strength of precast elements	Level 4	NQF Level 04	5
Elective	246740	Care for customers	Level 4	NQF Level 04	3
Elective	116571	Carry out routine tests on raw materials for concrete production	Level 4	NQF Level 04	10
Elective	244558	Comply with organisational ethics in a project environment	Level 4	NQF Level 04	4
Elective	116680	Conduct specialist sealing and repairs to concrete	Level 4	NQF Level 04	10
Elective	116572	Control concrete material quality	Level 4	NQF Level 04	5
Elective	116591	Demonstrate an understanding of and adjust concrete mix design	Level 4	NQF Level 04	5
Elective	116575	Demonstrate an understanding of and apply hiring business practices	Level 4	NQF Level 04	4
Elective	116563	Demonstrate knowledge and apply concrete materials technology	Level 4	NQF Level 04	10
Elective	15183	Demonstrate knowledge of concrete construction technology	Level 4	NQF Level 04	10
Elective	120384	Develop a simple schedule to facilitate effective project execution	Level 4	NQF Level 04	8
Elective	116594	Function in a team	Level 4	NQF Level 04	4
Elective	259878	Handover a serviced vehicle	Level 4	NQF Level 04	4
Elective	15168	Implement labour intensive construction systems and techniques	Level 4	NQF Level 04	12
Elective	263205	Inspect access scaffolding	Level 4	NQF Level 04	6
Elective	116556	Interpret and apply reinforcing drawings	Level 4	NQF Level 04	5
Elective	15172	Interpret test/lab results in civil construction	Level 4	NQF Level 04	4
Elective	262587	Interpret, read and use reinforcing drawings	Level 4	NQF Level 04	10
Elective	15180	Organise and control the installation of jacked pipes	Level 4	NQF Level 04	8
Elective	15185	Organise and control the spraying of bitumen on road surfaces	Level 4	NQF Level 04	5
Elective	15187	Organize and control general road maintenance activities	Level 4	NQF Level 04	20
Elective	15189	Organize and control road rehabilitation by milling	Level 4	NQF Level 04	4
Elective	15169	Organize and control the construction of bulk earthworks	Level 4	NQF Level 04	12

Elective	15170	Organize and control the utilization of plant and equipment in civil engineering construction	Level 4	NQF Level 04	12
Elective	116564	Oversee concrete production	Level 4	NQF Level 04	5
Elective	116561	Oversee instantly de-moulded pre cast concrete element production	Level 4	NQF Level 04	5
Elective	116558	Oversee pre cast concrete production - wet mix	Level 4	NQF Level 04	5
Elective	116580	Oversee spun pre cast concrete element production	Level 4	NQF Level 04	5
Elective	116583	Perform tandem lifting	Level 4	NQF Level 04	12
Elective	116615	Plan and prepare for the erection of structural steelwork	Level 4	NQF Level 04	16
Elective	15195	Plan organize and control the installation of drainage structures for stormwater flow	Level 4	NQF Level 04	10
Elective	116686	Plan, organise and control piling operations	Level 4	NQF Level 04	20
Elective	116689	Plan, organise and control pre - cast concrete manufacturing processes	Level 4	NQF Level 04	10
Elective	15175	Plan, organise and control the construction of stabilized and unstabilized pavement layers	Level 4	NQF Level 04	12
Elective	116691	Plan, organise and control the erection, alteration/repositioning and dismantling of load bearing scaffolding	Level 4	NQF Level 04	12
Elective	116690	Plan, organise and control the erection, alteration/repositioning and dismantling of suspended scaffolding	Level 4	NQF Level 04	18
Elective	116685	Plan, organise and control the fabrication and erection of formwork	Level 4	NQF Level 04	20
Elective	15177	Plan, organise and control the installation of Armco pipes	Level 4	NQF Level 04	8
Elective	15184	Plan, organise and control the installation of pressure and gravity drainage pipes	Level 4	NQF Level 04	8
Elective	116688	Plan, organise and control the jacking of concrete structures	Level 4	NQF Level 04	20
Elective	116683	Plan, organise and control the maintenance of steel structures	Level 4	NQF Level 04	8
Elective	15186	Plan, organise and control the maintenance of gravity drainage structures	Level 4	NQF Level 04	5
Elective	15188	Plan, organise and control the maintenance of pressure pipelines	Level 4	NQF Level 04	8
Elective	116693	Plan, organize and control reinforcing site activities	Level 4	NQF Level 04	25
Elective	116694	Plan, organize and control reinforcing workshop activities	Level 4	NQF Level 04	20
Elective	242811	Prioritise time and work for self and team	Level 4	NQF Level 04	5
Elective	116579	Supervise the installation of precast concrete elements	Level 4	NQF Level 04	8

Elective	116581	Supervise under water concreting	Level 4	NQF Level 04	4
Elective	116592	Tension bonded tendons	Level 4	NQF Level 04	10
Elective	116593	Tension unbonded tendons	Level 4	NQF Level 04	10
Elective	243954	Understand the need for cultural awareness in dealing with customers and colleagues	Level 4	NQF Level 04	4
Elective	15165	Use labour intensive construction methods to construct and maintain roads and stormwater drainage	Level 4	NQF Level 04	8
Elective	15159	Use labour intensive construction methods to construct and maintain water and sanitation services	Level 4	NQF Level 04	8
Elective	15166	Use labour intensive construction methods to construct, repair and maintain structures	Level 4	NQF Level 04	8
Elective	15161	Initiate testing and interpret test/lab results in civil construction	Level 5	Level TBA: Pre-2009 was L5	4
Elective	15181	Organise and control a binder manufacturing process	Level 5	Level TBA: Pre-2009 was L5	10
Elective	15178	Organise and control a hot mix asphalt manufacturing process	Level 5	Level TBA: Pre-2009 was L5	10
Elective	15190	Plan, organise and control asphalt paving construction	Level 5	Level TBA: Pre-2009 was L5	15
Elective	15192	Plan, organise and control bituminous surfacing seal construction	Level 5	Level TBA: Pre-2009 was L5	15