

No. 909

28 September 2007

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with Regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

**Quantity Surveying**

registered by Organising Field 12, Physical Planning and Construction, publishes the following Qualifications and Unit Standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the Qualifications and Unit Standards. The full Qualifications and Unit Standards can be accessed via the SAQA web-site at [www.saga.org.za](http://www.saga.org.za). Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the Qualifications and Unit Standards should reach SAQA at the address below and **no later 26 October 2007**. All correspondence should be marked **Standards Setting – Quantity Surveying** and addressed to

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**DR. S. BHIKHA**  
**DIRECTOR: STANDARDS SETTING AND DEVELOPMENT**



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**QUALIFICATION:**  
***Bachelor of Quantity Surveying***

SAQA QUAL ID	QUALIFICATION TITLE		
59182	Bachelor of Quantity Surveying		
ORIGINATOR		PROVIDER	
SGB Quantity Surveying			
QUALIFICATION TYPE	FIELD	SUBFIELD	
National First Degree	12 - Physical Planning and Construction	Physical Planning, Design and Management	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	360	Level 6	Regular-Unit Stds Based

**PURPOSE OF THE QUALIFICATION**

Purpose and Rationale:

Quantity Surveying is acknowledged as an independent profession within the context of the built environment world-wide. Registered Quantity Surveying Technologists, i.e. persons who have been awarded this Bachelor's Degree in Quantity Surveying and who are registered with the South African Council for the Quantity Surveying Profession in terms of the Quantity Surveying Profession Act 2000 (Act No 49 of 2000) enjoy due recognition and financial reward in terms of their specialised skills and technical competence in the provision and application of primary or fundamental quantity surveying expertise (theory and practice) relative to quantity surveying in the Built Environment, including:

- Planning for Construction Projects: Feasibility Studies, Life Cycle Cost Analyses.
- Project Cost Management, Procurement and Administration: Cost Management, Procurement, Contract Administration, Resource Analysis.
- Specialised Management Services.
- Support Competencies.

Graduates are equipped to apply primary quantity surveying skills as employees, under the supervision of a Registered Professional Quantity Surveyor and are:

- Eligible for employment in numerous spheres of the economy, which include private sector consultancies and professional firms, public sector employment (State, provincial and local authorities), tertiary/adult basic/further education and training, financial institutions, property development enterprises, research organisations, and construction companies.
- Empowered to build their personal career paths through undertaking further learning programmes with a view to articulation towards obtaining additional qualifications associated with the built environment.

The Bachelors degree in Quantity Surveying (NQF Level 6) is the new prerequisite qualification leading to admission to the Honours degree in Quantity Surveying (NQF Level 7) teaching/learning programme.

This qualification is intended to assist all relevant stakeholders and role players, such as potential employers operating in the built environment or other fields related to physical planning and construction, curriculum developers and providers of learning programmes, all education and training bodies and relevant moderators as well as learners and their parents, to understand

the notion of and criteria determining the level and the outcomes of the teaching/learning programme associated with this Bachelor's Degree in Quantity Surveying, which is bound by discipline-specific, primary or fundamental quantity surveying expertise (theory and practice) and has been developed by consensus amongst a widely representative group of Knowledge Experts operating in the Built Environment who support the scope, complexity of learning and competencies to be acquired by learners undertaking this programme of study.

While demand for quantity surveying skills in the construction industry is influenced by economic factors, for example, capital investment in property development projects, the skills and knowledge-base acquired by holders of this Degree afford opportunities for employment in sectors other than construction, for example, manufacturing industries, retailing, and maintenance (structures of all types).

Typically, a programme leading to the award of a Bachelor's Degree in Quantity Surveying aims to develop graduates who will possess demonstrable, specific skills and competencies to:

- Deal with basic commercial and management issues.
- Communicate effectively on all matters to which their skills and competencies have been applied.
- Use and apply information technology.
- Interpret and apply fundamental economic and legal principles.
- Execute tasks requiring numerical and quantification expertise.
- Apply knowledge of technology related to the Built Environment.
- Conduct personal research relative to their spheres of technical and professional expertise and apply information obtained from other sources.

The principal purposes of this qualification are to provide learners with primary or fundamental quantity surveying expertise (theory and practice) associated skills and competencies related to quantity surveying in the construction and property industries:

- Equip learners with a foundation for further intellectual development and opportunities for gainful employment and rewarding contributions to society.
- Provide the built environment professions with Graduates who possess contextually-specific expertise and skills.
- produce learners who are prepared for and understand the principles of:
  - Life-long learning.
  - Critical citizenship.
  - A wide range of issues which are crucial to the welfare of society, e.g. upliftment, empowerment and transformation.
- Contribute towards a learner's capacity to meet the prerequisites for statutory registration as a Registered QS Technologist with the South African Council for the Quantity Surveying Profession in terms of the Quantity Surveying Profession Act 2000 (as amended).

This qualification is for persons who meet the:

- Formal requirements for admission as candidates for the degree (set by institutional discretion).
- Additional institution-specific requirements related to minimum access standards for particular disciplines.
- Appropriate RPL requirements which provide access to candidates who do not comply with formal prerequisites for admission.

In addition, this qualification is for persons who desire to undertake post-graduate study leading to enhancement of their qualification/s.

### **RECOGNIZE PREVIOUS LEARNING?**

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**LEARNING ASSUMED IN PLACE**

- Mathematics at NQF Level 5.
- Communication at NQF Level 5.
- Physical Science at NQF Level 5.

It is important to note that learners who do not have a Matric mathematics and science may have difficulty in successfully completing this qualification programme.

Learners who apply for admission to this qualification should be able to:

- Comprehend what they have learned.
- Communicate it reliably, accurately and comprehensively in the required medium of instruction.
- Take responsibility for their own learning and its progression within a well-structured and managed learning environment.
- Evaluate their own performance.

Recognition of Prior Learning:

This Qualification may be achieved in part or completely through RPL, which includes formal, informal and non-formal learning and work experience.

Persons desiring entrance to the programme leading to the award of this qualification are:

- Advised, assisted and supported (portfolio compilation, orientation to required levels of competence, substantiation of their claims regarding prior skills/experience, planning of progression).
- Evaluated and assessed in accordance with their claims regarding prior skills and experience gained (portfolio review, implementation of assessment/evaluation methods, recommendations arising from the assessment/evaluation processes).
- Provided with quality management/assurance objectives to support the achievement of competence leading to the award of the qualification (assessment of competence in respect of required outcomes, auditing, approval, recommendation, reporting).

Access to the Qualification:

- Access to this Qualification is open bearing mind learning assumed to be in place.

**QUALIFICATION RULES**

Rules of combination:

Fundamentals:

- All the fundamental unit standard to the value of 37 credits are compulsory.

Core:

- All the core unit standards totalling 272 credits are compulsory.

Electives:

- Learners must choose a minimum of 51 credits from the electives in order to be awarded the qualification, to make total of 360 credits.

### **EXIT LEVEL OUTCOMES**

1. Apply primary or fundamental quantity surveying expertise (theory and practice) and understanding of quantity surveying practice relative to construction project development.
2. Demonstrate familiarity with the content and theory related to quantity surveying practice and procedure relative to new and existing facilities in the Built Environment.
3. Demonstrate systematic, well-rounded technical knowledge and an ability to question basic assumptions related to core theory, practice and basic methodology used in quantity surveying and other disciplines operating in the built environment.
4. Demonstrate competence related to fundamental modes of inquiry employed in the practice of quantity surveying and other disciplines operating in the Built Environment, in response to well-defined and frequently-encountered problems.
5. Communicate in a variety of ways within the Quantity Surveying environment.

### **Critical Cross-Field Outcomes:**

This qualification promotes, in particular, the following critical cross-field outcomes:

Identifying and solving problems in which responses display that responsible decisions using critical and creative thinking have been made when:

- Identifying and developing component shapes for a quantity surveying activity.
- Obtaining information where instructions or information on drawings is insufficient.
- Identifying and pro-actively reporting on non-availability of resources and materials.

Working effectively with others as a member of a team, group, organisation, and community during:

- Activities involving clients, co-workers and other trades on site.
- Communicating and receiving advice from supervisor.

Organising and managing oneself and one's activities responsibly and effectively when:

- Setting out the work area and preparing to fabricate and install components.
- Performing activities in accordance with industry standards.
- Selecting quantity surveying tools and equipment in accordance with the requirements of the task.
- Ensuring tools, equipment and quantity surveying materials are securely stored.
- Maintaining minimum quantities of quantity surveying materials in accordance with task requirements.
- Safety equipment and clothing is selected and prepared in accordance with legislative requirements.

Collecting, analysing, organising and critically evaluating information to better understand and explain by:

- Carrying out written site instructions issued by the client, correctly and efficiently.
- Correctly interpreting information contained in drawings.
- Setting out work areas from provided control positions and levels in accordance with instructions and drawings.

Communicating effectively using visual, mathematical and/or language skills in the modes of oral and/or written persuasion when:

- Issuing clear verbal instructions to team members.
- Actively listening to feedback received from team members.
- Evaluating and reporting problem situations to the client.

Using science and technology effectively and critically, showing responsibility towards the environment and health of others when:

- By applying the appropriate tools and materials for different quantity surveying activities.
- Demonstrating an understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation when:
  - The inter-relatedness of the fabrication and installation of components to quantity surveying systems.

#### **ASSOCIATED ASSESSMENT CRITERIA**

Associated Assessment Criteria for Exit Level Outcome 1:

1. The setting-out of construction works is described using appropriate survey equipment.
2. Taking off of quantities and the application of the information in project administration are demonstrated for small or simple load bearing and framed structures.
3. The compilation of price determination documents is demonstrated in accordance with industry procedures.
4. Contractual management of Built Environment projects is demonstrated in accordance with sector norms.
5. Micro- and macro-economic issues impacting on the construction and property sectors are identified and explained in accordance with quantity surveying practice.

Associated Assessment Criteria for Exit Level Outcome 2:

1. Construction drawings and specifications are interpreted according to industry norms.
2. Cost estimates are prepared for Built Environment projects.
3. Design-cost alternatives, implementation of project cost-norm analyses and replacement cost valuations are demonstrated in accordance with quantity surveying practice and procedures.
4. Budgetary processes, cash flow forecasting, management and preparation of financial reports are implemented in relation to Built Environment projects.

Associated Assessment Criteria for Exit Level Outcome 3:

1. Management of price determination, tender evaluation processes and awarding of contracts is demonstrated in accordance with Built Environment procedures.
2. Cost planning and cost control of Built Environment projects is demonstrated.
3. The benefits of interaction with other role-players in achieving equitable solutions to problems encountered are demonstrated within the Built Environment.
4. A range of initiatives and viable solutions to frequently-encountered problems related to Built Environment projects is described including but are not restricted to, economic and environmental protection factors.

Associated Assessment Criteria for Exit Level Outcome 4:

1. Provision of procurement advice for Built Environment projects, including matching clients' strategic objectives with appropriate procurement system characteristics is demonstrated.
2. Management of procurement and utilisation of construction resources is described including human resources.

3. Management of construction contracts is demonstrated including but not restricted to on-site management and administration.
4. Management of the effects of scope-change is described in accordance with Built Environment industry norms.

Associated Assessment Criteria for Exit Level Outcome 5:

1. Communication is conducted with both internal and external clients.
2. Effective spoken, written and interpretation skills are demonstrated relative to correspondence and reports.
3. Construction drawings and specifications, price determination documents and technical information related to all matters to which their skills and competence have been applied are explained, using appropriate terminology.
4. Appropriate modes of communication and interaction with other role-players encountered within the Built Environment, are explained and illustrated with examples which include, but are not restricted to a discussion of construction assembly problems, economic, financial and contractual matters.
5. Computer software packages are used within the Quantity Surveying environment.

Integrated Assessment:

Learning and assessment are integrated throughout the programme. Continuous formative assessment is applied to ensure that learners receive feedback on their progress towards the achievement of specific learning outcomes. Summative assessment concerned with the evaluation of the learning achievements relative to the exit-level outcomes of the qualification includes "overall integrated assessment" which evaluates the learner's ability to combine the various components and modules of the broader scope of knowledge, skills, competencies and attitudes represented by the exit-level outcomes, as a whole or as individual component-processes of the overall learning experience leading to the qualification.

Assignments, designed to meet the requirements of integrated assessment, accomplish/deliver:

- Integration of exit-level outcomes in a way that demonstrates that the purpose of the qualification as a whole has been achieved, either totally or within the components of the study programme.
- Demonstration of learner competence through evaluation.
- Criterion-referenced assessment which:
  - Has been clearly explained to and is understood by the learners.
  - Can be applied in the Recognition of Prior Learning.

In the assessment of whether the desired outcomes have been achieved (or not), recognition is given to criteria and evaluation methods that adequately and appropriately achieve such assessment.

#### **INTERNATIONAL COMPARABILITY**

International comparability was conducted with countries in Africa as well as abroad. The following countries were chosen because that where best practice is. The Bachelors Degree in Quantity Surveying programme is ranked among similar sought-after qualifications offered by tertiary institutions in Australia, New Zealand, Hong Kong, Singapore, Kenya, Nigeria and the United Kingdom and it is required to meet standards of quality comparable with international benchmarks established for vocational first degrees in the built environment professions, as demanded and assured by processes of accreditation conducted by the Royal Institution of Chartered Surveyors (represented in all Commonwealth member states) and the South African Council for the Quantity Surveying Profession, in consultation with the South African Qualifications Authority and the Council on Higher Education.

The Australian equivalent was considered to be an appropriate guide in towards developing the South African Diploma programme, a process which followed prescribed processes of broad and narrow consultation with Knowledge Experts operating in the construction industry, commerce, Built Environment professions, State Departments, tertiary and Further Education and Training (FET) institutions.

This Degree meets prerequisite standards comparable with international benchmarks established for similar qualifications in the built environment professions, in keeping with the demands and quality assurance processes related to accreditation by the Royal Institution of Chartered Surveyors (represented in all Commonwealth member states) and the South African Council for the Quantity Surveying Profession, in consultation with the South African Qualifications Authority and the Council on Higher Education.

### **ARTICULATION OPTIONS**

Horizontal articulation is possible with:

- ID 20435: Bachelor of Architecture: Studiorum, NQF Level 6.
- ID 48700: Bachelor of Construction Management: Built Environment, NQF Level 6.

Vertical articulation is possible with:

- ID 59181: Bachelor of Quantity Surveying (Honours), NQF Level 7.
- ID 49096: Master of Quantity Surveying, NQF Level 8 and above.
- ID 49095: Doctor of Quantity Surveying, NQF Level 8 and above.

### **MODERATION OPTIONS**

- Anyone assessing a learner or moderating the assessment of a learner against this Qualification must be registered as an assessor with an appropriate Education, Training, and 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 ETQA or with an ETQA that has a Memorandum of Understanding with the relevant ETQA. Moderation of assessment will be overseen by the relevant ETQA 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 at exit points of the Qualification, unless ETQA policies specify otherwise. Moderation should also encompass achievement of the competence described both in individual unit standards as well as in the exit level outcomes described in the qualification.

### **CRITERIA FOR THE REGISTRATION OF ASSESSORS**

For an applicant to register as an assessor, the applicant needs:

- Well-developed interpersonal skills, subject matter and assessment experience.
- To be competent in the planning and conducting assessment of learning outcomes as described in the unit standards Conduct Outcomes-based assessment at NQF Level 5.
- Well-developed subject matter expertise within Quantity Surveying.
- A Qualification in Quantity Surveying at or above NQF Level 5.
- To be registered with the relevant Education and Training Quality Assurance Body.
- Detailed documentary proof of educational qualification, practical training undergone, and experience gained by the applicant must be provided (Portfolio of evidence). Assessment competencies and subject matter experience of the assessor.

### **NOTES**



**Specified Requirements:**

Specified requirements include legal and legislative specific requirements contained in one or more of the following documents:

**Legal:**

- Act 1: The Quantity Surveying Profession Act No 49 of 2000.
- Act 2: The Council for the Built Environment Act No 43 of 2000.
- Act 3: The National Environmental Management Act No 107 of 1998.
- Act 4: The Occupational Health and Safety Act No 85 of 1993.
- Act 5: The Compensation for Occupational Injuries and Diseases Act No 130 of 1993.
- Act 6: The South African Qualifications Authority Act No 58 of 1995.
- Act 7: The Skills Development Act No 97 of 1998.
- Construction Regulations (2003).
- A glossary of terms about the terminology of...Not applicable.

**Context Specific Issues:**

- User manuals supplied manufacturers: Not applicable
- ( ) system: Not applicable
- Specifications, agreements and policies and procedures: The S A Bureau of Standards Specifications (as appropriate).

**UNIT STANDARDS**

	<b>ID</b>	<b>UNIT STANDARD TITLE</b>	<b>LEVEL</b>	<b>CREDITS</b>
Core	251987	Demonstrate an understanding of financial accounting principles and practices	Level 5	12
Core	244595	Demonstrate an understanding of macro-economic principles	Level 5	12
Core	251969	Demonstrate an understanding of management accounting principles and practices	Level 5	12
Core	244599	Demonstrate an understanding of micro-economic principles	Level 5	12
Core	252062	Explain and use construction drawings and interpret specifications	Level 5	10
Core	252061	Explain the roles and functions of construction industry stakeholders, role-players and processes associated with the industry	Level 5	4
Core	252060	Set out construction work	Level 5	10
Core	15140	Understand and apply building construction methods	Level 5	10
Core	15150	Understand and apply principles relating to the installation of services in building	Level 5	7
Core	244583	Understand the basic principles of South African mercantile law	Level 5	10
Core	244555	Understand the basic principles of management theory and practice	Level 5	12
Core	244588	Undertake basic descriptive quantification	Level 5	15
Core	251994	Apply legal principles to the contractual management of Built Environment projects	Level 6	15
Core	251975	Determine project resource requirements for Built Environment projects	Level 6	10
Core	251988	Manage payment processes during Built Environment project construction	Level 6	5
Core	252004	Manage the effects of change in the nature and scope of Built Environment projects	Level 6	5
Core	251973	Prepare cost estimates for Built Environment projects	Level 6	10
Core	251985	Prepare for and implement cost planning processes related to Built Environment projects	Level 6	5
Core	251993	Provide procurement advice for Built Environment projects	Level 6	5
Core	115453	Understand and apply mathematical systems for	Level 6	18

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
		commercial applications		
Core	115448	Understand and apply statistical techniques for business and research applications	Level 6	18
Core	251992	Understand the basic principles of property investment and finance	Level 6	10
Core	251974	Understand the basic principles of urban land economics and property development	Level 6	10
Core	252003	Undertake budgetary reporting on and monitoring of built environment projects	Level 6	5
Core	244592	Undertake intermediate descriptive quantification	Level 6	30
Elective	15138	Understand and apply structural principles	Level 5	7
Elective	251990	Understand the basic principles of South African labour law	Level 5	12
Elective	251991	Compile a project cost information database for Built Environment projects	Level 6	5
Elective	115444	Manage construction organizational assets	Level 6	5
Elective	114656	Manage environment initiatives on a construction project	Level 6	6
Elective	251997	Manage price determination processes for Built Environment projects.	Level 6	5
Elective	115454	Understand and apply Civil Engineering construction technology	Level 6	30
Elective	115456	Understand and apply electrical construction technology	Level 6	30
Elective	115447	Understand and apply mechanical construction technology	Level 6	30
Elective	252001	Understand the basic principles of South African company law	Level 6	12
Elective	251995	Understand the basic principles of property law in South Africa	Level 6	10
Elective	251976	Conduct land tax and related tax assessments for Built Environment projects	Level 7	5
Elective	251983	Conduct specialised audits for Built Environment facilities	Level 7	5
Elective	251979	Conduct tax assessments on Built Environment projects	Level 7	5
Elective	251978	Demonstrate an understanding of professional ethics	Level 7	5
Elective	116359	Demonstrate an understanding of the application of advanced construction technology	Level 7	15
Elective	115451	Demonstrate an understanding of the management of construction projects in an international environment	Level 7	15
Elective	251972	Design and implement specialised quality assurance procedures	Level 7	5
Elective	251981	Implement project service quality assurance on Built Environment projects	Level 7	5
Elective	252000	Manage production processes of price determination documents for Built Environment projects	Level 7	5
Elective	252002	Manage risk on Built Environment projects	Level 7	5
Elective	251989	Provide advice on contract documents and price determination methods for Built Environment projects	Level 7	5
Elective	251996	Resolve claims, settle disputes and apply close-out processes on Built Environment projects	Level 7	5
Elective	251970	Strategic planning of built environment projects	Level 7	10
Elective	115452	Understand and apply Tunnelling technology and limited Mining operations techniques	Level 7	20
Elective	251984	Understand professional practice management procedures in a quantity surveying enterprise	Level 7	5
Elective	251998	Understand the basic principles of property valuation	Level 7	10
Elective	251980	Understand the principles of sustainability assessment for Built Environment projects	Level 7	5
Elective	252005	Understand the theory and practice of housing development and management	Level 7	10
Elective	251982	Understand value management processes on Built Environment projects	Level 7	5
Elective	251971	Undertake advanced descriptive quantification	Level 7	15
Elective	251977	Undertake financial feasibility studies for built environment projects	Level 7	10
Elective	251999	Undertake research in the built environment	Level 7	20
Elective	251986	Undertake whole life appraisals of built environment projects	Level 7	5
Fundamental	115199	Administer construction projects	Level 6	5

	<b>ID</b>	<b>UNIT STANDARD TITLE</b>	<b>LEVEL</b>	<b>CREDITS</b>
Fundamental	115449	Manage construction projects	Level 6	12
Fundamental	115442	Understand and apply building construction technology	Level 6	20



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate an understanding of management accounting principles and practices***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251969	Demonstrate an understanding of management accounting principles and practices		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	12

**SPECIFIC OUTCOME 1**

Understand the classification of cost and the role of cost accounting in managerial decision-making.

**SPECIFIC OUTCOME 2**

Understand the components of total cost.

**SPECIFIC OUTCOME 3**

Understand the principles of cost control accounts and the reconciliation of cost and financial accounts.

**SPECIFIC OUTCOME 4**

Understand the methods of costing and the relationship between costs, revenues and profits.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Design and implement specialised quality assurance procedures***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251972	Design and implement specialised quality assurance procedures		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Develop corporate quality policies.

**SPECIFIC OUTCOME 2**

Develop service provision quality procedures.

**SPECIFIC OUTCOME 3**

Undertake internal audits of service quality.

**SPECIFIC OUTCOME 4**

Undertake service provision quality debriefing (feedback) with clients and other relevant stakeholders.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Prepare cost estimates for Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251973	Prepare cost estimates for Built Environment projects		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
SGB Quantity Surveying			
<b>FIELD</b>	<b>SUBFIELD</b>		
12 - Physical Planning and Construction	Physical Planning, Design and Management		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	10

**SPECIFIC OUTCOME 1**

Collect appropriate data to produce cost estimates/indicative costs for Built Environment projects.

**SPECIFIC OUTCOME 2**

Analyse and advise on various alternative design solutions for Built Environment projects.

**SPECIFIC OUTCOME 3**

Build up rates.

**SPECIFIC OUTCOME 4**

Prepare cost estimates for Built Environment projects.

**SPECIFIC OUTCOME 5**

Provide advice on cost estimates prepared for Built Environment projects.

**SPECIFIC OUTCOME 6**

Undertake cost norms analyses relative to Built Environment projects.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Determine project resource requirements for Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251975	Determine project resource requirements for Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	10

**SPECIFIC OUTCOME 1**

Determine resource requirements.

**SPECIFIC OUTCOME 2**

Understand construction programmes.

**SPECIFIC OUTCOME 3**

Interpret resource and productivity usage reports.

**SPECIFIC OUTCOME 4**

Prepare material order lists.

**SPECIFIC OUTCOME 5**

Develop and implement appropriate procedures for resource-based data gathering.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Demonstrate an understanding of financial accounting principles and practices***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251987	Demonstrate an understanding of financial accounting principles and practices		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	12

**SPECIFIC OUTCOME 1**

Understand the nature of various business enterprises and associated financial reporting requirements.

**SPECIFIC OUTCOME 2**

Apply basic financial accounting practices.

**SPECIFIC OUTCOME 3**

Interpret and analyse financial information and accounting statements of the business enterprise.





## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Manage payment processes during Built Environment project construction**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251988	Manage payment processes during Built Environment project construction		
<b>ORIGINATOR</b>			<b>PROVIDER</b>
SGB Quantity Surveying			
<b>FIELD</b>			<b>SUBFIELD</b>
12 - Physical Planning and Construction			Physical Planning, Design and Management
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	5

**SPECIFIC OUTCOME 1**

Recommend progress payments during the project construction phase.

**SPECIFIC OUTCOME 2**

Determine the extent of project rise and fall costs and access relevant data (formula-based).

**SPECIFIC OUTCOME 3**

Status of progress payment confirmed.

**SPECIFIC OUTCOME 4**

Conduct negotiations on adjustment of project rise and fall costs (non formula-based).



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:***Provide procurement advice for Built Environment projects*

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251993	Provide procurement advice for Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	5

**SPECIFIC OUTCOME 1**

Understand Built Environment project procurement systems.

**SPECIFIC OUTCOME 2**

Collect information required to determine Built Environment project procurement requirements.

**SPECIFIC OUTCOME 3**

Evaluate Built Environment project procurement systems.

**SPECIFIC OUTCOME 4**

Undertake Built Environment project buildability analysis.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Apply legal principles to the contractual management of Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251994	Apply legal principles to the contractual management of Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	15

**SPECIFIC OUTCOME 1**

Acquire knowledge of the development of construction contracts in historical and comparative perspective.

**SPECIFIC OUTCOME 2**

Demonstrate knowledge of building contracts for targeted procurement and community involvement.

**SPECIFIC OUTCOME 3**

Demonstrate knowledge of standard construction contract forms in common usage.

**SPECIFIC OUTCOME 4**

Ensure project compliance with legislative and planning requirements, including environmental and occupational health and safety issues.

**SPECIFIC OUTCOME 5**

Understand alternative dispute resolution procedures and evidentiary norms applied in legal proceedings within the Built Environment.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Manage price determination processes for Built Environment projects.***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251997	Manage price determination processes for Built Environment projects.		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
SGB Quantity Surveying			
<b>FIELD</b>	<b>SUBFIELD</b>		
12 - Physical Planning and Construction	Physical Planning, Design and Management		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	5

**SPECIFIC OUTCOME 1**

Prepare price determination enquiry documentation for Built Environment projects.

**SPECIFIC OUTCOME 2**

Initiate Built Environment project award process.

**SPECIFIC OUTCOME 3**

Advise on the selection of bidders for Built Environment projects.

**SPECIFIC OUTCOME 4**

Negotiate bids for Built Environment projects.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Manage risk on Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252002	Manage risk on Built Environment projects		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
SGB Quantity Surveying			
<b>FIELD</b>	<b>SUBFIELD</b>		
12 - Physical Planning and Construction	Physical Planning, Design and Management		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Implement a risk management strategy.

**SPECIFIC OUTCOME 2**

Identify relevant external and internal stakeholders and establish decision-making and communication structures.

**SPECIFIC OUTCOME 3**

Manage the risk associated with construction projects.

**SPECIFIC OUTCOME 4**

Monitor risk management performance.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Undertake budgetary reporting on and monitoring of built environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252003	Undertake budgetary reporting on and monitoring of built environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	5

**SPECIFIC OUTCOME 1**

Establish and maintain Built Environment project cost management and monitoring procedures.

**SPECIFIC OUTCOME 2**

Forecast cash flows for the construction phase of a Built Environment project.

**SPECIFIC OUTCOME 3**

Appraise cost reporting systems related to cost management and monitoring procedures on Built Environment projects.

**SPECIFIC OUTCOME 4**

Establish cost budgets for Built Environment projects.

**SPECIFIC OUTCOME 5**

Prepare cost reports for Built Environment projects.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Manage the effects of change in the nature and scope of Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252004	Manage the effects of change in the nature and scope of Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	5

**SPECIFIC OUTCOME 1**

Extent of proposed scope changes to Built Environment construction projects.

**SPECIFIC OUTCOME 2**

Collect all data relevant to project scope changes.

**SPECIFIC OUTCOME 3**

Conduct negotiation on project scope changes.

**SPECIFIC OUTCOME 4**

Assess the effects of changes in project scope on cost and delivery.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Set out construction work**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252060	Set out construction work		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	10

**SPECIFIC OUTCOME 1**

Understand and apply surveying techniques and principles.

**SPECIFIC OUTCOME 2**

Set out works using only measuring tapes and a spirit level.

**SPECIFIC OUTCOME 3**

Set out and check levels and profiles.

**SPECIFIC OUTCOME 4**

Set out work using a theodolite.





## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Explain the roles and functions of construction industry stakeholders, role-players and processes associated with the industry***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252061	Explain the roles and functions of construction industry stakeholders, role-players and processes associated with the industry		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	4

**SPECIFIC OUTCOME 1**

Describe the role of the construction industry and its impact on the South African Economy.

**SPECIFIC OUTCOME 2**

Identify role-players and describe their positions and duties.

**SPECIFIC OUTCOME 3**

Develop an understanding of the impact of legislation.

**SPECIFIC OUTCOME 4**

Identify and describe education, training and development initiatives.

**SPECIFIC OUTCOME 5**

Identify major construction activities.

**SPECIFIC OUTCOME 6**

Apply communication techniques.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Explain and use construction drawings and interpret specifications***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252062	Explain and use construction drawings and interpret specifications		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	10

**SPECIFIC OUTCOME 1**

Identify drawings and symbols used on construction projects.

**SPECIFIC OUTCOME 2**

Safeguard, store and issue construction drawings.

**SPECIFIC OUTCOME 3**

Apply information from drawings.

**SPECIFIC OUTCOME 4**

The roles of drawings and specifications are explained and demonstrated.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate an understanding of the basic principles of South African company law***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252001	Demonstrate an understanding of the basic principles of South African company law		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	12

**SPECIFIC OUTCOME 1**

Understand the nature of juristic persons.

**SPECIFIC OUTCOME 2**

Understand the general principles of the law relating to partnerships.

**SPECIFIC OUTCOME 3**

Understand the general principles of the law relating to trusts.

**SPECIFIC OUTCOME 4**

Understand the general principles of the law relating to companies.

**SPECIFIC OUTCOME 5**

Understand the general principles of the law relating to close corporations.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	
Elective	59181	Bachelor of Quantity Surveying (Honours)	Level 7	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate an understanding of the basic principles of property law in South Africa***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251995	Demonstrate an understanding of the basic principles of property law in South Africa		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	10

**SPECIFIC OUTCOME 1**

Understand the legal classification of immovable property in South Africa.

**SPECIFIC OUTCOME 2**

Understand legal principles relating to rights over immovable property in South Africa.

**SPECIFIC OUTCOME 3**

Understand statutes and ordinances relating to property development and valuation in South Africa.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	
Core	59181	Bachelor of Quantity Surveying (Honours)	Level 7	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate an understanding of the basic principles of property investment and finance***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251992	Demonstrate an understanding of the basic principles of property investment and finance		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	10

**SPECIFIC OUTCOME 1**

Understand the principles of property investment.

**SPECIFIC OUTCOME 2**

Understand the theory and application of property finance.

**SPECIFIC OUTCOME 3**

Apply risk analysis and management to property investment.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

*Demonstrate an understanding of the basic principles of South African labour law*

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251990	Demonstrate an understanding of the basic principles of South African labour law		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 5	12

**SPECIFIC OUTCOME 1**

Understand the common law contract of employment.

**SPECIFIC OUTCOME 2**

Understand legislative interventions and protections relating to employment.

**SPECIFIC OUTCOME 3**

Understand the principles of labour law relating to unfair discrimination.

**SPECIFIC OUTCOME 4**

Understand the general principles of the law relating to discipline and dismissal under the Labour Relations Act of 1955.

**SPECIFIC OUTCOME 5**

Understand the general principles of the law relating to employment equity legislation.

**SPECIFIC OUTCOME 6**

Understand the principles of labour law within the context of the organisation.

**SPECIFIC OUTCOME 7**

Understand collective labour law provided in terms of the Labour Relations Act and the Constitution of South Africa.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate an understanding of the basic principles of urban land economics and property development***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251974	Demonstrate an understanding of the basic principles of urban land economics and property development		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	10

**SPECIFIC OUTCOME 1**

Understand the functioning of the real property market.

**SPECIFIC OUTCOME 2**

Understand the principles of urban land economics.

**SPECIFIC OUTCOME 3**

Understand the principles of property development.

**SPECIFIC OUTCOME 4**

Understand the principles of property investment.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**QUALIFICATION:****Bachelor of Quantity Surveying (Honours)**

SAQA QUAL ID	QUALIFICATION TITLE		
59181	Bachelor of Quantity Surveying (Honours)		
ORIGINATOR	PROVIDER		
SGB Quantity Surveying			
QUALIFICATION TYPE	FIELD	SUBFIELD	
Honours Degree	12 - Physical Planning and Construction	Physical Planning, Design and Management	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	120	Level 7	Regular-Unit Stds Based

**PURPOSE OF THE QUALIFICATION**

Purpose and Rationale:

Quantity Surveying is acknowledged as an independent profession within the context of the built environment world-wide. Registered Candidate Professional Quantity Surveyors, i.e. persons who have been awarded this Honours Degree in Quantity Surveying and who are registered with the South African Council for the Quantity Surveying Profession in terms of the Quantity Surveying Profession Act 2000 (Act No 49 of 2000) enjoy due recognition and financial reward in terms of their specialised skills and technical competence in the provision and application of advanced quantity surveying expertise (theory and practice) related to the Built Environment, including:

Planning for Construction Projects: Feasibility Studies, Life Cycle Cost Analyses, Technical Due Diligence and Compliance Issues Project Cost Management, Procurement and Administration: Cost Management, Procurement, Contract Administration, Financial Auditing and Resource Analysis Specialised Management Services: Project Value Management, Project Risk Management, Project Quality Assurance, Project Management, Project Management, Specialised Assessments, Specialised Audits, Research and Development Support Competencies Graduates are equipped to apply primary quantity surveying skills with the prospect of registration as Professional Quantity Surveyors after successful completion of a statutory 36-month period of in-service training period as employees under the guidance and mentorship of a Registered Professional Quantity Surveyor and successful completion of the Assessment of Professional Competence (APC) prescribed by the South African Council for Quantity Surveyors (SACQSP), at the end of the 36-month period eligible for employment in numerous spheres of the economy, which include private sector consultancies and professional firms, public sector employment (State, provincial and local authorities), tertiary/adult basic/further education and training, financial institutions, property development enterprises, research organisations, and construction companies and empowered to build their personal career paths through undertaking further learning programmes with a view to articulation towards obtaining additional qualifications associated with the built environment.

The Honours degree in Quantity Surveying (NQF Level 7) is the new prerequisite qualification leading to statutory registration as a Candidate Professional Quantity Surveyor which, together with the Bachelors degree in Quantity Surveying (NQF Level 6), replaces the previous four-year qualification designated as Bachelor of Science in Quantity Surveying.

This qualification is intended to assist all relevant stakeholders and role-players, such as potential employers operating in the built environment or other fields related to physical planning



and construction, curriculum developers and providers of learning programmes, all education and training bodies and relevant moderators as well as learners and their parents, to understand the notion of and criteria determining the level and the outcomes of the teaching/learning programme associated with this Honours Degree in Quantity Surveying, which is bound by discipline-specific, advanced quantity surveying expertise (theory and practice) and has been developed by consensus amongst a widely representative group of Knowledge Experts operating in the Built Environment who support the scope, complexity of learning and competencies to be acquired by learners undertaking this programme of study.

While demand for quantity surveying skills in the construction industry is influenced by economic factors, for example, capital investment in property development projects, the skills and knowledge-base acquired by holders of this Honours Degree afford opportunities for employment in sectors other than construction, for example, manufacturing industries, retailing, and maintenance (structures of all types).

The principal purposes of this qualification are to provide learners with advanced quantity surveying expertise (theory and practice) skills and competencies related to quantity surveying in the construction and property industries equip learners with a foundation for further intellectual development and opportunities for gainful employment and rewarding contributions to society provide the built environment professions with Honours Graduates who possess contextually specific expertise and skills, produce learners who are prepared for and understand the principles of life-long learning critical citizenship wide range of issues which are crucial to the welfare of society, eg upliftment, empowerment and transformation contribute towards a learner's capacity to meet the prerequisites for statutory registration as Registered Candidate Professional Quantity Surveyors with the South African Council for the Quantity Surveying Profession in terms of the Quantity Surveying Profession Act 2000 (as amended).

This qualification is for persons who meet the formal requirements for admission as candidates for the degree (set by institutional discretion) additional institution-specific requirements related to minimum access standards for particular disciplines appropriate RPL requirements which provide access to candidates who do not comply with formal prerequisites for admission. In addition, this qualification is for persons who desire to undertake post-graduate study leading to enhancement of their qualification/s. Qualifying learners to whom the Honours Degree in Quantity Surveying is awarded, are competent to. Demonstrate familiarity with and display knowledge and understanding of the content, theory and scholarly positions related to quantity surveying practice and procedure at both elementary and intermediate levels. Demonstrate systematic, well-rounded knowledge and an ability to critically question basic assumptions related to core theory, practice and basic methodology used in quantity surveying and other disciplines operating in the built environment. Display competence in basic/elementary modes of inquiry employed in the practise of quantity surveying and other disciplines operating in the built environment, in response to specified problems (both concrete and abstract). Analyse and locate the principles and performance of their own work within current practice related to the built environment professions and the construction industry. Interpret a wide range of domain-related issues by applying various systems of enquiry appropriate to the discipline of quantity surveying and its allied professions. Construct debate and argument around newly -encountered information and situations, to demonstrate competence in interpretation and explanation of such information, etc. Prepare written reports/conduct research projects in response to well-defined briefs and within specific parameters. Learners who apply for admission to this programme should be able to comprehend what they have learned communicate it reliably, accurately and comprehensively in the required medium of instruction take responsibility for their own learning and its progression within a well structured and managed learning environment evaluate their own performance.

#### **RECOGNIZE PREVIOUS LEARNING?**

Y

#### **LEARNING ASSUMED IN PLACE**

It is assumed that learners are already competent in:

- Mathematics at NQF Level 6.
- Communication at NQF Level 6.
- Physical Science at NQF Level 6.

It is important to note that learners who do not have a clear understanding of mathematics and science may have difficulty in successfully completing this qualification programme.

Recognition of Prior Learning:

This Qualification may be achieved in part or completely through RPL, which includes formal, informal and non-formal learning and work experience:

Persons desiring entrance to the programme leading to the award of this qualification are advised, assisted and supported (portfolio compilation, orientation to required levels of competence, substantiation of their claims regarding prior skills/experience, planning of progression), evaluated and assessed in accordance with their claims regarding prior skills and experience gained (portfolio review, implementation of assessment/evaluation methods, recommendations arising from the assessment/evaluation processes) provided with quality management/assurance objectives to support the achievement of competence leading to the award of the qualification (assessment of competence in respect of required outcomes, auditing, approval, recommendation, reporting).

Access to the Qualification:

- Access to this qualification is open bearing in mind learning assumed to be in place.

#### **QUALIFICATION RULES**

Rules of combination:

Fundamentals:

- All the fundamental unit standard to the value of 5 credits are compulsory.

Core:

- All the core unit standards totalling 80 credits are compulsory.

Electives:

- Learners must choose a minimum of 35 credits from the electives in order to be awarded the qualification, to make total of 120 credits.

#### **EXIT LEVEL OUTCOMES**

1. Analyse and solve problems encountered in the day-to-day work of the quantity surveying profession.
2. Apply commercial, management, legal and entrepreneurial skills to ensure that clients' needs and expectations are met.
3. Apply technological skills relative to construction project assembly processes.
4. Apply numerical and quantification skills inherent in quantity surveying practice.
5. Engage in interdisciplinary and interpersonal teamwork.

6. Demonstrate various modes of communication in response to well-designed briefs.
7. Use specialised computer systems and packages, networks and information management infrastructure.
8. Conduct research and implement sound research techniques.

Critical Cross-Field Outcomes:

This qualification promotes, in particular, the following critical cross-field outcomes:

Identifying and solving problems in which responses display that responsible decisions using critical and creative thinking have been made when:

- Identifying and developing component shapes for a quantity surveying activity.
- Obtaining information where instructions or information on drawings is insufficient.
- Identifying and pro-actively reporting on non-availability of resources and materials.

Working effectively with others as a member of a team, group, organisation, and community during:

- Activities involving clients, co-workers and other trades on site.
- Communicating and receiving advice from supervisor.

Organising and managing oneself and one's activities responsibly and effectively when:

- Setting out the work area and preparing to fabricate and install components.
- Performing activities in accordance with industry standards.
- Selecting quantity surveying tools and equipment in accordance with the requirements of the task.
- Ensuring tools, equipment and quantity surveying materials are securely stored.
- Maintaining minimum quantities of quantity surveying materials in accordance with task requirements.
- Safety equipment and clothing is selected and prepared in accordance with legislative requirements.

Collecting, analysing, organising and critically evaluating information to better understand and explain by:

- Carrying out written site instructions issued by the client, correctly and efficiently.
- Correctly interpreting information contained in drawings.
- Setting out work areas from provided control positions and levels in accordance with instructions and drawings.

Communicating effectively using visual, mathematical and/or language skills in the modes of oral and/or written persuasion when:

- Issuing clear verbal instructions to team members.
- Actively listening to feedback received from team members.
- Evaluating and reporting problem situations to the client.

Using science and technology effectively and critically, showing responsibility towards the environment and health of others when:

- By applying the appropriate tools and materials for different quantity surveying activities.

Demonstrating an understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation when:

- The inter-relatedness of the fabrication and installation of components to quantity surveying systems.

#### **ASSOCIATED ASSESSMENT CRITERIA**

Associated Assessment Criteria for Exit Level Outcome 1:

1. Risk on Built Environment projects is identified and risk management processes described.
2. Whole life appraisals of Built Environment projects are performed.
3. The principles of sustainability assessment for Built Environment projects are understood.
4. Value management processes on Built Environment projects are demonstrated.
5. The design and implementation of specialised quality assurance procedures are undertaken.
6. Specialised audits for Built Environment facilities are demonstrated.
7. Professional practice management procedures in a quantity surveying enterprise are demonstrated.

Associated Assessment Criteria for Exit Level Outcome 2:

1. An understanding of professional ethics is demonstrated.
2. The basic principles of property law in South Africa are explained.
3. Strategic planning of Built Environment projects is implemented.
4. Management of production processes of price determination documents for Built Environment projects is demonstrated.
5. Administration of construction projects is implemented.
6. Management of construction organisational assets is explained.
7. Basic principles of South African labour law are described.
8. Basic principles of South African company law are described.

Associated Assessment Criteria for Exit Level Outcome 3:

1. Advice on contract documents and price determination methods for Built Environment projects is provided.
2. Project service quality assurance on Built Environment projects is implemented.
3. The application of Mechanical Construction Technology is understood.
4. Management of construction projects is demonstrated.
5. The application of Tunnelling Technology and limited Mining Operations techniques is explained.
6. The application of Civil Engineering Construction Technology is explained.
7. The application of Electrical Construction Technology is explained.
8. The application of Advanced Construction Technology is demonstrated.

Associated Assessment Criteria for Exit Level Outcome 4:

1. The management of price determination processes for Built Environment projects is demonstrated.
2. Financial feasibility studies for Built Environment projects are undertaken.
3. Advanced descriptive quantification is demonstrated.
4. Tax assessments on Built Environment projects are conducted.
5. Land tax and related tax assessments for Built Environment projects are conducted.

Associated Assessment Criteria for Exit Level Outcome 5:

1. Claims and disputes are settled.
2. Close-out processes on Built Environment projects are demonstrated.
3. Environmental initiatives on a construction project are managed.
4. The theory and practice of housing development and management are explained.
5. The basic principles of property valuation are demonstrated.
6. An understanding of the management of construction projects in an international environment is demonstrated.

Associated Assessment Criteria for Exit Level Outcome 6:

1. Effective communication using appropriate media is demonstrated.
2. Methods of providing information for use by others are applied.
3. Competence to work effectively as an individual or as a team member is demonstrated.
4. Communication of concepts, ideas and theories with the aid of descriptions, quantification, prices and financial reports is demonstrated.

Associated Assessment Criteria for Exit Level Outcome 7:

1. Project cost information databases for Built Environment projects are designed.
2. Use of specialised computer systems and packages is demonstrated.
3. Networks are established.
4. An information management infrastructure is implemented.
5. Accessing, processing, communicating, managing and storing information to enhance personal productivity and teamwork is demonstrated.

Associated Assessment Criteria for Exit Level Outcome 8:

1. Sound research methodology is applied.
2. Accurate surveys, investigations and analyses using appropriate methods and equipment are planned and conducted.
3. Information is derived, data analysed and accurately interpreted.
4. Appropriate research reports are compiled.
5. Awareness of the need for engagement in life-long learning and research is demonstrated.

Integrated Assessment:

Learning and assessment are integrated throughout the programme. Continuous formative assessment is applied to ensure that learners receive feedback on their progress towards the achievement of specific learning outcomes. Summative assessment concerned with the evaluation of the learning achievements relative to the exit-level outcomes of the qualification includes "overall integrated assessment" which evaluates the learner's ability to combine the various components and modules of the broader scope of knowledge, skills, competencies and attitudes represented by the exit-level outcomes, as a whole or as individual component-processes of the overall learning experience leading to the qualification.

Assignments, designed to meet the requirements of integrated assessment, accomplish/deliver integration of exit-level outcomes in a way that demonstrates that the purpose of the qualification as a whole has been achieved, either totally or within the components of the study programme; demonstration of learner competence through evaluation criterion-referenced assessment which has been clearly explained to and is understood by the learners can be applied in the Recognition of Prior Learning.

In the assessment of whether the desired outcomes have been achieved (or not), recognition is given to criteria and evaluation methods that adequately and appropriately achieve such assessment.

**ARTICULATION OPTIONS**

Horizontal Articulation is possible with:

- ID 48735: Bachelor of Architecture: Professional, NQF Level 7.
- ID 23480: Bachelor of Science (Honours): Quantity Surveying, NQF Level 7.

Vertical Articulation is possible with:

- ID 49096: Master of Quantity Surveying, NQF Level 8 and above.
- ID 49096: Doctor of Quantity Surveying, NQF Level 8 and above.

**MODERATION OPTIONS**

- Anyone assessing a learner or moderating the assessment of a learner against this Qualification must be registered as an assessor with an appropriate Education, Training, and 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 ETQA or with an ETQA that has a Memorandum of Understanding with the relevant ETQA. Moderation of assessment will be overseen by the relevant ETQA 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 at exit points of the Qualification, unless ETQA policies specify otherwise. Moderation should also encompass achievement of the competence described both in individual unit standards as well as in the exit level outcomes described in the qualification.

**CRITERIA FOR THE REGISTRATION OF ASSESSORS**

For an applicant to register as an assessor, the applicant needs:

- Well-developed interpersonal skills, subject matter and assessment experience.
- To be competent in the planning and conducting assessment of learning outcomes as described in the unit standards Conduct Outcomes-based assessment at NQF Level 7.
- Well-developed subject matter expertise within Quantity Surveying.
- A Qualification in Quantity Surveying at or above NQF Level 7.
- To be registered with the relevant Education and Training Quality Assurance Body.
- Detailed documentary proof of educational qualification, practical training undergone, and experience gained by the applicant must be provided (Portfolio of evidence).
- Assessment competencies and subject matter experience of the assess.

**NOTES**

Supplementary Information:

- Not applicable.

Specified requirements:

Specified requirements include legal and legislative specific requirements and are contained in one or more of the following documents:

- Legal:
  - Act 1: The Quantity Surveying Profession Act No 49 of 2000.
  - Act 2: The Council for the Built Environment Act No 43 of 2000.

- Act 3: The National Environmental Management Act No 107 of 1998.
- Act 4: The Occupational Health and Safety Act No 85 of 1993.
- Act 5: The Compensation for Occupational Injuries and Diseases Act No 130 of 1993.
- Act 6: The South African Qualifications Authority Act No 58 of 1995.
- Act 7: The Skills Development Act No 97 of 1998.
- Construction regulations (2003).

- Context Specific Issues:

- Specifications, agreements and policies and procedures: The S A Bureau of Standards Specifications (as appropriate).

### UNIT STANDARDS

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	251991	Compile a project cost information database for Built Environment projects	Level 6	5
Core	251997	Manage price determination processes for Built Environment projects.	Level 6	5
Core	251995	Understand the basic principles of property law in South Africa	Level 6	10
Core	251981	Implement project service quality assurance on Built Environment projects	Level 7	5
Core	252000	Manage production processes of price determination documents for Built Environment projects	Level 7	5
Core	251989	Provide advice on contract documents and price determination methods for Built Environment projects	Level 7	5
Core	251996	Resolve claims, settle disputes and apply close-out processes on Built Environment projects	Level 7	5
Core	251970	Strategic planning of built environment projects	Level 7	10
Core	251977	Undertake financial feasibility studies for built environment projects	Level 7	10
Core	251999	Undertake research in the built environment	Level 7	20
Elective	115199	Administer construction projects	Level 6	5
Elective	115444	Manage construction organizational assets	Level 6	5
Elective	115449	Manage construction projects	Level 6	12
Elective	114656	Manage environment initiatives on a construction project	Level 6	6
Elective	115454	Understand and apply Civil Engineering construction technology	Level 6	30
Elective	115456	Understand and apply electrical construction technology	Level 6	30
Elective	115447	Understand and apply mechanical construction technology	Level 6	30
Elective	252001	Understand the basic principles of South African company law	Level 6	12
Elective	251976	Conduct land tax and related tax assessments for Built Environment projects	Level 7	5
Elective	251983	Conduct specialised audits for Built Environment facilities	Level 7	5
Elective	251979	Conduct tax assessments on Built Environment projects	Level 7	5
Elective	116359	Demonstrate an understanding of the application of advanced construction technology	Level 7	15
Elective	115451	Demonstrate an understanding of the management of construction projects in an international environment	Level 7	15
Elective	251972	Design and implement specialised quality assurance procedures	Level 7	5
Elective	252002	Manage risk on Built Environment projects	Level 7	5
Elective	115452	Understand and apply Tunnelling technology and limited Mining operations techniques	Level 7	20
Elective	251984	Understand professional practice management procedures in a quantity surveying enterprise	Level 7	5
Elective	251998	Understand the basic principles of property valuation	Level 7	10
Elective	251980	Understand the principles of sustainability assessment for Built Environment projects	Level 7	5
Elective	252005	Understand the theory and practice of housing development and management	Level 7	10
Elective	251982	Understand value management processes on Built	Level 7	5

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
		Environment projects		
Elective	251971	Undertake advanced descriptive quantification	Level 7	15
Elective	251986	Undertake whole life appraisals of built environment projects	Level 7	5
Fundamental	251978	Demonstrate an understanding of professional ethics	Level 7	5





## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Strategic planning of built environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251970	Strategic planning of built environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	10

**SPECIFIC OUTCOME 1**

Establish project objectives and parameters and the format of the report.

**SPECIFIC OUTCOME 2**

Provide strategic planning advice on the costs and benefits of various courses of action which could be taken on Built Environment projects.

**SPECIFIC OUTCOME 3**

Conduct economic and financial analyses related to Built Environment projects.

**SPECIFIC OUTCOME 4**

Provide input into the development of a Built Environment project brief.

**SPECIFIC OUTCOME 5**

Demonstrate awareness and understanding of regulatory compliance.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Conduct land tax and related tax assessments for Built Environment projects**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251976	Conduct land tax and related tax assessments for Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Confirm the specialised tax service objectives and strategy.

**SPECIFIC OUTCOME 2**

Confirm interface with other professional consultants.

**SPECIFIC OUTCOME 3**

Assess land tax.

**SPECIFIC OUTCOME 4**

Assess stamp duty.

**SPECIFIC OUTCOME 5**

Assess Local Authority rates.

**SPECIFIC OUTCOME 6**

Establish reporting detail.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Undertake advanced descriptive quantification***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251971	Undertake advanced descriptive quantification		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
SGB Quantity Surveying			
<b>FIELD</b>	<b>SUBFIELD</b>		
12 - Physical Planning and Construction	Physical Planning, Design and Management		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	15

**SPECIFIC OUTCOME 1**

Critically appraise the project design.

**SPECIFIC OUTCOME 2**

Develop a logical approach to the sequence of measurement.

**SPECIFIC OUTCOME 3**

Understand and apply measurement clauses.

**SPECIFIC OUTCOME 4**

Abstract elements into trade order.

**SPECIFIC OUTCOME 5**

Compile price determination documents from abstract and measurements.

**SPECIFIC OUTCOME 6**

Pricing of price determination documents.

**SPECIFIC OUTCOME 7**

Use appropriate specialist computer-based quantification packages for project procurement development and administration.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	
Elective	59181	Bachelor of Quantity Surveying (Honours)	Level 7	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate an understanding of the principles of sustainability assessment for Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251980	Demonstrate an understanding of the principles of sustainability assessment for Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Describe the scoping study to establish the nature and extent of sustainability assessment exercise.

**SPECIFIC OUTCOME 2**

Environmental sustainability assessment of projects understood.

**SPECIFIC OUTCOME 3**

Economic sustainability assessment of projects understood.

**SPECIFIC OUTCOME 4**

Social sustainability assessment of projects understood.

**SPECIFIC OUTCOME 5**

Technological sustainability assessment of projects understood.

**SPECIFIC OUTCOME 6**

Communicate outcomes of sustainability assessment to the client, other role players and stakeholders.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	
Elective	59181	Bachelor of Quantity Surveying (Honours)	Level 7	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate an understanding of value management processes on Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251982	Demonstrate an understanding of value management processes on Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Identify project objectives.

**SPECIFIC OUTCOME 2**

Undertake value management assessment exercise.

**SPECIFIC OUTCOME 3**

Record and distribute the results of the value management exercise.

**SPECIFIC OUTCOME 4**

Recommend to client how outcomes of the value management assessment can be adopted.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	
Elective	59181	Bachelor of Quantity Surveying (Honours)	Level 7	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate an understanding of professional practice management procedures  
in a quantity surveying enterprise***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251984	Demonstrate an understanding of professional practice management procedures in a quantity surveying enterprise		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Understand the content and objectives of professional legislation for the Built Environment.

**SPECIFIC OUTCOME 2**

Understand principles of practice structuring.

**SPECIFIC OUTCOME 3**

Prepare contractual and fee reimbursement schedules for professional services.

**SPECIFIC OUTCOME 4**

Apply principles of developing a competitive business strategy.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	
Elective	59181	Bachelor of Quantity Surveying (Honours)	Level 7	Draft - Prep for P Comment	



**SOUTH AFRICAN QUALIFICATIONS AUTHORITY**

**UNIT STANDARD:**

***Demonstrate an understanding of the theory and practice of housing development and management***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252005	Demonstrate an understanding of the theory and practice of housing development and management		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	10

**SPECIFIC OUTCOME 1**

Understand the basic principles of development theory and South Africa's housing problem.

**SPECIFIC OUTCOME 2**

Understand basic housing theory and policy.

**SPECIFIC OUTCOME 3**

Understand the basic principles of appropriate technology.

**SPECIFIC OUTCOME 4**

Understand the nature and effectiveness of housing delivery systems.

**SPECIFIC OUTCOME 5**

Understand management issues in housing delivery.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	
Elective	59181	Bachelor of Quantity Surveying (Honours)	Level 7	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Demonstrate an understanding of the basic principles of property valuation***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251998	Demonstrate an understanding of the basic principles of property valuation		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	10

**SPECIFIC OUTCOME 1**

Understand the role of the property valuer.

**SPECIFIC OUTCOME 2**

Understand the principles of property valuation in respect of land, improvements and potentiality.

**SPECIFIC OUTCOME 3**

Understand the basic methods of property valuation.

**SPECIFIC OUTCOME 4**

Understand the basic principles governing the valuation of immovable property for expropriation purposes.

**SPECIFIC OUTCOME 5**

Understand the basic principles governing the valuation of immovable property for rating purposes.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59182	Bachelor of Quantity Surveying	Level 6	Draft - Prep for P Comment	
Elective	59181	Bachelor of Quantity Surveying (Honours)	Level 7	Draft - Prep for P Comment	





## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Undertake financial feasibility studies for built environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251977	Undertake financial feasibility studies for built environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	10

**SPECIFIC OUTCOME 1**

Access information required to prepare a financial feasibility study.

**SPECIFIC OUTCOME 2**

Analyse design construction details.

**SPECIFIC OUTCOME 3**

Prepare financial feasibility study.

**SPECIFIC OUTCOME 4**

Demonstrate a basic understanding of property economic issues.

**SPECIFIC OUTCOME 5**

Understand the need for information to be provided by other consultants and incorporate the contribution of other specialist consultants.

**SPECIFIC OUTCOME 6**

Communicate the outcomes of the study to the client, stakeholders and other role players.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Demonstrate an understanding of professional ethics***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251978	Demonstrate an understanding of professional ethics		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
SGB Quantity Surveying			
<b>FIELD</b>	<b>SUBFIELD</b>		
12 - Physical Planning and Construction	Physical Planning, Design and Management		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Recognise professional codes of conduct related to Built Environment practices.

**SPECIFIC OUTCOME 2**

Describe professional ethics and principles.

**SPECIFIC OUTCOME 3**

Explain the application of ethical standards in Built Environment professional practice.

**SPECIFIC OUTCOME 4**

Identify the importance of taking professional responsibility for own actions.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Conduct tax assessments on Built Environment projects**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251979	Conduct tax assessments on Built Environment projects		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
SGB Quantity Surveying			
<b>FIELD</b>	<b>SUBFIELD</b>		
12 - Physical Planning and Construction	Physical Planning, Design and Management		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Confirm the specialized tax assessment service objectives and strategy.

**SPECIFIC OUTCOME 2**

Conduct tax depreciation assessments.

**SPECIFIC OUTCOME 3**

Conduct value added tax assessment.

**SPECIFIC OUTCOME 4**

Conduct capital gains tax assessment.

**SPECIFIC OUTCOME 5**

Develop schedule and prepare report.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Conduct specialised audits for Built Environment facilities**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251983	Conduct specialised audits for Built Environment facilities		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Establish project objectives and parameters.

**SPECIFIC OUTCOME 2**

Conduct premises audit.

**SPECIFIC OUTCOME 3**

Complete energy and maintenance audit.

**SPECIFIC OUTCOME 4**

Complete asset registers audit.

**SPECIFIC OUTCOME 5**

Develop audit schedules and prepare report.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Prepare for and implement cost planning processes related to Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251985	Prepare for and implement cost planning processes related to Built Environment projects		
<b>ORIGINATOR</b>	<b>PROVIDER</b>		
SGB Quantity Surveying			
<b>FIELD</b>	<b>SUBFIELD</b>		
12 - Physical Planning and Construction	Physical Planning, Design and Management		
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	5

**SPECIFIC OUTCOME 1**

Establish cost objectives and parameters for Built Environment projects.

**SPECIFIC OUTCOME 2**

Develop pre-contract cost plans for Built Environment projects.

**SPECIFIC OUTCOME 3**

Create elemental and component cost data for the cost planning of Built Environment projects.

**SPECIFIC OUTCOME 4**

Evaluate outcomes and analyse financial and non-financial returns for Built Environment projects.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Undertake whole life appraisals of built environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251986	Undertake whole life appraisals of built environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Establish project objectives and parameters.

**SPECIFIC OUTCOME 2**

Confirm data elements.

**SPECIFIC OUTCOME 3**

Establish data sources, collection processes, financial projections and other project-related information.

**SPECIFIC OUTCOME 4**

Establish time-based aspects related to the period during which the analysis process is to apply.

**SPECIFIC OUTCOME 5**

Confirm reporting format, layout and presentation.

**SPECIFIC OUTCOME 6**

Complete the whole life appraisal.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

### UNIT STANDARD:

*Provide advice on contract documents and price determination methods for Built Environment projects*

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251989	Provide advice on contract documents and price determination methods for Built Environment projects		
<b>ORIGINATOR</b>			<b>PROVIDER</b>
SGB Quantity Surveying			
<b>FIELD</b>			<b>SUBFIELD</b>
12 - Physical Planning and Construction			Physical Planning, Design and Management
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

#### SPECIFIC OUTCOME 1

Advise Client on alternative types of contract documents appropriate to the Built Environment project under consideration.

#### SPECIFIC OUTCOME 2

Recommend and agree with Client and consultant team the choice of price determination method, associated method of measurement, and input document requirements.

#### SPECIFIC OUTCOME 3

Access and distribute input documents.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Compile a project cost information database for Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251991	Compile a project cost information database for Built Environment projects		
<b>ORIGINATOR</b>			<b>PROVIDER</b>
SGB Quantity Surveying			
<b>FIELD</b>			<b>SUBFIELD</b>
12 - Physical Planning and Construction			Physical Planning, Design and Management
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 6	5

**SPECIFIC OUTCOME 1**

Define the requirements of a Built Environment project cost information database.

**SPECIFIC OUTCOME 2**

Access relevant information.

**SPECIFIC OUTCOME 3**

Set up and maintain database.

**SPECIFIC OUTCOME 4**

Apply project cost information databases to the financial management of Built Environment projects.





## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Resolve claims, settle disputes and apply close-out processes on Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251996	Resolve claims, settle disputes and apply close-out processes on Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Establish background and collect all data relevant to claims.

**SPECIFIC OUTCOME 2**

Conduct negotiations on claims settlement.

**SPECIFIC OUTCOME 3**

Prepare claims and resolution status report for client, and communicate report to relevant stakeholders.

**SPECIFIC OUTCOME 4**

Prepare, and settle final account and apply close-out processes.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Undertake research in the built environment***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251999	Undertake research in the built environment		
<b>ORIGINATOR</b>			<b>PROVIDER</b>
SGB Quantity Surveying			
<b>FIELD</b>			<b>SUBFIELD</b>
12 - Physical Planning and Construction			Physical Planning, Design and Management
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	20

**SPECIFIC OUTCOME 1**

Select a relevant topic and determine an appropriate method of research to be adopted.

**SPECIFIC OUTCOME 2**

Undertake research and investigation into the topic.

**SPECIFIC OUTCOME 3**

Present research in written submission.

**SPECIFIC OUTCOME 4**

Report all relevant findings emanating from the research study.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Manage production processes of price determination documents for Built Environment projects**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252000	Manage production processes of price determination documents for Built Environment projects		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Quantity Surveying			
<b>FIELD</b>		<b>SUBFIELD</b>	
12 - Physical Planning and Construction		Physical Planning, Design and Management	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Develop production management plans for the preparation of price determination documentation, including resources and other requirements.

**SPECIFIC OUTCOME 2**

Manage the preparation and production of appropriate work-breakdown price determination documentation.

**SPECIFIC OUTCOME 3**

Undertake accuracy, completeness and other checks.

**SPECIFIC OUTCOME 4**

Price determination documentation finalised and distributed.



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Implement project service quality assurance on Built Environment projects***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
251981	Implement project service quality assurance on Built Environment projects		
<b>ORIGINATOR</b>			<b>PROVIDER</b>
SGB Quantity Surveying			
<b>FIELD</b>			<b>SUBFIELD</b>
12 - Physical Planning and Construction			Physical Planning, Design and Management
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 7	5

**SPECIFIC OUTCOME 1**

Establish roles and responsibilities, organisational structures and communication channels.

**SPECIFIC OUTCOME 2**

Evaluate the quality of project documentation.

**SPECIFIC OUTCOME 3**

Develop project information management systems.

**SPECIFIC OUTCOME 4**

Prepare project close-out system.