GOVERNMENT NOTICES

No. 410

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

17 April 2009



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

Rail and Pipeline Operations

registered by Organising Field 11 – Services, 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 <u>www.saga.org.za</u>. 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 than 18May 2009.* All correspondence should be marked **Standards Setting – SGB for Rail and Pipeline Operations** and addressed to

> The Director: Standards Setting and Development SAQA *Attention: Mr. E. Brown* Postnet Suite 248 Private Bag X06 Waterkloof 0145 or faxed to 012 – 431-5144 e-mail: ebrown@saqa.org.za

D. MPHUTHING ACTING DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



QUALIFICATION: National Certificate: Rail Operations (Functional Yard Operations)

SAQA QUAL ID	QUALIFICATION TITLE		
66709	National Certificate: Rail Operations (Functional Yard Operations)		
ORIGINATOR		PROVIDER	
SGB Rail and Pipeline Op	erations		
QUALIFICATION TYPE	FIELD	SUBFIELD	
National Certificate	11 - Services	Transport, Operat	ions and Logistics
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	121	Level 3	Regular-Unit Stds
			Based

This qualification replaces:

Qual ID	Qualification Title	NQF	Min	Replacement
		Level	Credits	Status
23893	National Certificate: Rail Operations (Functional Yard Operations)	Level 3	120	Will occur as soon as 66709 is registered

PURPOSE AND RATIONALE OF THE QUALIFICATION Purpose:

A learner qualifying in this qualification will be able to execute train control functions to ensure the safe and timeous movement of rail-bound vehicles from one point to another under planned and controlled conditions.

A learner who has achieved this qualification will have extensive theoretical and practical knowledge and skills of all the functions in a marshalling yard and will manage the functional duties as required.

The qualifying learner will be capable of:

- Preparing and despatching trains.
- Using equipment and procedures to provide on-track protection.
- Applying organisational standards and procedures in executing rail yard functions.

Rationale:

A safe and efficient rail transport system provides a key service of the transport sector of an economy. This qualification is intended for new entrants as well as existing personnel to gain formal recognition for learning in rail operations (yard personnel). It will serve to equip qualifying learners with the ability to perform functions related to a marshalling yard environment of rail operations.

This unit standards-based qualification was generated to provide an opportunity for eatry into the rail operation industry at NQF Level 3, a foundation for further learning at NQF Level 4 as well as for further development from NQF Level 2.

This will allow persons currently in, or aspiring to enter the rail operations environment (Yard Personnel) and others to obtain an integrated practical and theoretical grounding in the

Source: National Learners' Records Database	Qualification 66709	20/03/2009	Page 1

operation of a marshalling yard and all the functions thereof, which includes utilising, planning and controlling of movement for shunting purposes.

This will ensure a portable, nationally recognised qualification that will:

- Improve the quality of safety in the work environment.
- Provide a better service to clients.
- Lead to transformation in economic growth and social development.

• Better co-ordination between various functions within the yards, Joint Operating Office and open line working.

The aim of this qualification is to create a life-long learning environment in which the individual can build on a personal career in the Rail Operations environment. The various skills programmes that exist will allow learners to progress to a national qualification in functional yard operations.

RECOGNIZE PREVIOUS LEARNING?

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LEARNING ASSUMED IN PLACE

It is assumed that a learner will be competent in:

• Communication at NOF Level 2

• Mathematical Literacy at NQF Level 2.

Recognition of Prior Learning:

This Qualification and the entire fundamental, core and elective Unit Standards associated with it can be achieved by any learner through the recognition of prior learning, which includes learning outcomes achieved through formal, informal and non-formal learning and work experience. Learner and assessor will jointly decide on methods to determine prior learning and competence in the knowledge, skills, values and attitudes implicit in the qualification and the associated unit standards.

This Recognition of Prior Learning may allow for:

- Gaining of credits for unit standards in this gualification.
- Obtaining this qualification in whole.

All Recognition of Prior Learning is subject to quality assurance by the relevant ETQA or an ETQA that has a Memorandum of Understanding with the relevant ETQA.

Access to the Qualification:

• There is open access to this Qualification.

QUALIFICATION RULES

The Qualification consists of a Fundamental, a Core and an Elective Component.

To be awarded the Qualification learners are required to obtain a minimum of 121 credits as detailed below.

Fundamental component

The Fundamental Component consists of Unit Standards in:

Source: National Learners' Records Database Q	Qualification 66709	30/03/2009	Page 2
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- Mathematical Literacy at NQF Level 3 to the value of 16 credits.
- Communication at NQF Level 3 in a First South African Language to the value of 20 credits.

All Unit Standards in the Fundamental Component are compulsory.

Core component:

• The Core Component consists of Unit Standards to the value of 54 credits all of which are compulsory.

Elective component:

• The Elective Component consists of individual unit standards from which the learner must choose unit standards totalling a minimum of 31 credits.

EXIT LEVEL OUTCOMES

1. Prepare and dispatch trains for safe movement on rail.

2. Execute protection procedures to ensure safe movement on rail.

3. Conduct rail yard functions.

ASSOCIATED ASSESSMENT CRITERIA

Assessment criteria for Exit Level Outcome 1:

1.1. A train profile is formulated according to the nature of rolling stock and destination.

1.2. Shunting movement of rolling stock is controlled in a specific environment according to instructions, POSMOR and train working rules.

1.3. Rail vehicles are inspected for road worthiness and compilation is inspected and rectified according to organisational standards and procedures.

1.4. Despatching procedures, are executed according to organisational standards and procedures.

• Range: Procedures include performing brake test and administration.

Assessment Criteria for Exit Level Outcome 2:

2.1. Radio communication skills are demonstrated during train control and protection procedures in accordance with protocols and organisational standards and procedures.

2.3. A high-voltage earthing switch is operated according to manufacturer specifications and instructions.

2.3. Procedures for the introduction, maintenance and discontinuation of on-track protection are executed in applicable area of operation according to train working rules.

Assessment Criteria for Exit Level Outcome 3:

3.1. Organisational requirements for various rail yard functions are described in terms of methods to achieve acceptable results.

3.2. Consequences of not adhering to organisational requirements are described in terms of the impact on the organisation and safety.

3.3. Rail yard functions are conducted in accordance with organisational requirements.

Integrated Assessment:

Source: National Learners' Records Database

Qualification 66709

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

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

While the generic components of this qualification at NQF Level 3 can be assessed through occupational contexts and activities relating to Train Operations, care must be taken in both the learning programme and the assessment to ensure that these foundational skills are portable. The primary aim of this qualification is to ensure that learners have a sound general foundation to prepare them for further learning towards a specialised role in their chosen career path. Learners must be able to transfer generic skills across a number of different contexts, and apply them within a number of learning areas.

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

INTERNATIONAL COMPARABILITY

• International and National benchmarking was done throughout the standard writing process.

• The UK courseware received, was not applicable to the South African environment and the competence profiles do not match the related profiles in South Africa.

• The yard operations, as well as the roles within the South African context, differ totally in comparison with that in the UK rail environment.

• The competency descriptions/profiles also vary within Spoornet, Metrorail, OREX, Coallink and other private rail-related companies, but the project team compiled standards that will cover the whole spectrum within the rail environment in South Africa.

• RAIL TRANSPORTATION WORKERS (USA) advertise various jobs for the USA rail market, but if it is compared with the South African market and competency profiles, then it does not match any competencies at all.

ARTICULATION OPTIONS

The possibility exists for vertical articulation with this Qualification. The following qualifications serve as examples of vertical articulation:

• ID 66669: Further Education and Training Certificate: Rail Operations: Train Control, NQF Level 4.

• ID 61670: Further Education and Training Certificate: Railway Construction and Maintenance, NQF Level 4.

• ID 49067: Further Education and Training Certificate: Railway Signalling: Fault-finding and Repair of Equipment, NQF Level 4.

Examples of horizontal articulation with this Qualification:

Source: National Learners' Records Database

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- ID 49236: National Certificate: Rail Transport Passenger Services, NQF Level 3.
- ID 49066: National Certificate: Railway Signalling: Installation and Scheduled Maintenance of Equipment, NQF Level 3.
- ID 48437: National Certificate: Road Transport, NQF Level 3.

MODERATION OPTIONS

• Any institution offering learning that will enable achievement of this qualification and the associated unit standards must be accredited by the relevant ETQA.

- External Moderation of assessment will be overseen by the relevant ETQA at its discretion.
- The accredited Training Provider will oversee internal moderation of assessment.

• Internal and external moderation should encompass achievement of competence described in the exit level outcomes of the qualification as well as the integrated competence described in the purpose of the qualification.

CRITERIA FOR THE REGISTRATION OF ASSESSORS N/A

NOTES

This qualification replaces qualification 23893, "National Certificate: Rail Operations (Functional Yard Operations)", Level 3, 120 credits.

UNIT STANDARDS

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Fundamental	119472	Accommodate audience and context needs in oral/signed	Level 3	5
		communication		
Fundamental	9010	Demonstrate an understanding of the use of different	Level 3	2
		number bases and measurement units and an awareness	3	
		of error in the context of relevant calculations		
Fundamental	9013	Describe, apply, analyse and calculate shape and motion	Level 3	4
		in 2-and 3-dimensional space in different contexts		
Fundamental	119457	Interpret and use information from texts	Level 3	5
Fundamental	9012	Investigate life and work related problems using data and	Level 3	5
		probabilities		
Fundamental	119467	Use language and communication in occupational	Level 3	5
		learning programmes		
Fundamental	7456	Use mathematics to investigate and monitor the financial	Level 3	5
		aspects of personal, business and national issues		
Fundamental	119465	Write/present/sign texts for a range of communicative	Level 3	5
		contexts		
Core	264375	Adhere to disciplinary code and grievance procedures	Level 3	3
Core	260957	Compile a train	Level 3	12
Core	262446	Despatch a train	Level 3	5
Core	262449	Devise strategies for the maintenance of a healthy	Level 3	4
		lifestyle		
Core	260918	Operate a radio transceiver	Level 3	3
Core	262445	Provide on-track protection	Level 3	5
Core	264338	Shunt rail vehicles	Level 3	18
Core	260919	Operate near and underneath high-voltage equipment	Level 4	4
Elective	264384	Execute train movement procedures	Level 3	6
Elective	264417	Execute train operating contingency plans	Level 3	2
Elective	264399	Utilise Van Schoor method of train control for safe	Level 3	5
		movement on rail		
Elective	262448	Utilise fixed and temporary trackside indicators for rail	Level 3	3
		movement		
Elective	264396	Utilise radio order system of train control	Level 3	5
Elective	264378	Utilise semaphore signals for rail movement on double	Level 3	4

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Elective	264381	Utilise semaphore signals for rail movement on single lines	Level 3	6
Elective	264401	Utilise telegraph order system for safe movement on rail	Level 3	5
Elective	264394	Utilise the wooden train staff system of train control for safe movement on rail	Level 3	3
Elective	260920	Explain the topographical concepts of a trajectory within the rail environment	Level 4	10
Elective	116594	Function in a team	Level 4	4
Elective	264397	Monitor railway stock and related equipment	Level 4	10
Elective	264372	Utilise colour-light signalling for rail movement	Level 4	18
Elective	264418	Utilise pilot working for safe movement on rail	Level 4	4
Elective	264294	Utilise track warrant system of train control	Level 4	5

LEARNING PROGRAMMES RECORDED AGAINST THIS QUALIFICATION None

Source: National Learners' Records Database

Qualification 66709

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UNIT STANDARD:

Utilise track warrant system of train control

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264294	Utilise track warrant system of	of train control			
ORIGINATOR		PROVIDER			
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operatio	ons and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 4	5		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14671	Utilise track warrant system of train control for safe	Level 3	5	Will occur as soon as
	movement on rail			264294 is registered

SPECIFIC OUTCOME 1

Demonstrate an elementary understanding of the Track Warrant system.

SPECIFIC OUTCOME 2

Communicate Track Warrant information.

SPECIFIC OUTCOME 3

Adhere to the en-route procedures.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database	Unit Standard 264294
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UNIT STANDARD:

Shunt rail vehicles

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE		
264338	Shunt rail vehicles	Shunt rail vehicles		
ORIGINATOR		PROVIDER		
SGB Rail and Pipel	ine Operations			
FIELD		SUBFIELD		
11 - Services		Transport, Operation	ons and Logistics	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS	
Undefined	Regular	Level 3	18	

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14638	Shunt rail vehicles	Level 2	18	Will occur as soon as 264338 is registered

SPECIFIC OUTCOME 1

Describe rail yard layout.

SPECIFIC OUTCOME 2

Couple and uncouple rail vehicles.

SPECIFIC OUTCOME 3

Control shunt movement of rolling stock.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database

Unit Standard 264338

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UNIT STANDARD:

Utilise colour-light signalling for rail movement

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264372	Utilise colour-light signalling f	Utilise colour-light signalling for rail movement			
ORIGINATOR		PROVIDER			
SGB Rail and Pipeli	ne Operations	Operations			
FIELD		SUBFIELD			
11 - Services	11 - Services		ons and Logistics		
ABET BAND UNIT STANDARD TYPE		NQF LEVEL	CREDITS		
Undefined	Regular	Level 4	18		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14611	Utilise colour-light signalling for rail movement	Level 4	18	Will occur as soon as 264372 is registered

SPECIFIC OUTCOME 1

Describe colour-light signals.

SPECIFIC OUTCOME 2

Describe the application of the different colour-light signals.

SPECIFIC OUTCOME 3

Adhere to colour-light signals.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database

Unit Standard 264372

27/03/2009



UNIT STANDARD:

Adhere to disciplinary code and grievance procedures

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264375	Adhere to disciplinary code a	Adhere to disciplinary code and grievance procedures			
ORIGINATOR		PROVIDER			
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operation	ons and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 3	3		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14633	Adhere to disciplinary code	Level 3	1	Will occur as soon as 264375 is registered
14636	Follow grievance procedure	Level 3	2	Will occur as soon as 264375 is registered

SPECIFIC OUTCOME 1

Define the nature of a disciplinary code.

SPECIFIC OUTCOME 2

Explain disciplinary procedures.

SPECIFIC OUTCOME 3

Describe the nature of grievance procedures.

SPECIFIC OUTCOME 4

Explain grievance procedures.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database

Unit Standard 264375

27/03/2009



UNIT STANDARD:

Utilise semaphore signals for rail movement on double lines

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264378	Utilise semaphore signals for	Utilise semaphore signals for rail movement on double lines			
ORIGINATOR		PROVIDER			
SGB Rail and Pipeli	ne Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operation	ons and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 3	4		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14594	Utilise semaphore signals/indicators for rail	Level 3	4	Will occur as soon as
	movement on double lines			264378 is registered

SPECIFIC OUTCOME 1

Explain the use of semaphore signals on double lines.

SPECIFIC OUTCOME 2

Respond to the position of semaphore signals on double lines.

SPECIFIC OUTCOME 3

Explain procedures to be used during sub-standard conditions.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database Unit Standard 264378

27/03/2009



UNIT STANDARD:

Utilise semaphore signals for rail movement on single lines

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264381	Utilise semaphore signals for	Utilise semaphore signals for rail movement on single lines			
ORIGINATOR		PROVIDER			
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operatio	ons and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 3	6		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14607	Utilise semaphore signals/indicators for rail	Level 3	8	Will occur as soon as
	movement on single lines			264381 is registered

SPECIFIC OUTCOME 1

Explain the use of semaphore signals on single lines.

SPECIFIC OUTCOME 2

Respond to the position of semaphore signals on single lines.

SPECIFIC OUTCOME 3

Explain procedures to be used during sub-standard conditions.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database Unit Standard 264381

27/03/2009



UNIT STANDARD:

Execute train movement procedures

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264384	Execute train movement proc	Execute train movement procedures			
ORIGINATOR					
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD			
11 - Services	11 - Services		Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL CREDITS			
Undefined	Regular	Level 3	6		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14618	Execute departure/arrival/en route travelling procedures - train personnel	Level 3	3	Will occur as soon as 264384 is registered
14621	Perform crossing of trains	Level 3	3	Will occur as soon as 264384 is registered

SPECIFIC OUTCOME 1

Perform procedures and inspections before departure of trains from stations/yards.

SPECIFIC OUTCOME 2

Perform en route safety procedures.

SPECIFIC OUTCOME 3

Perform duties at railway line crossing places.

SPECIFIC OUTCOME 4

Perform arrival procedures at destinations.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database Unit Standard 264384

27/03/2009



UNIT STANDARD:

Utilise the wooden train staff system of train control for safe movement on rail

SAQA US ID	UNIT STANDARD TITLE				
264394	Utilise the wooden train staff	Utilise the wooden train staff system of train control for safe movement on rail			
ORIGINATOR		PROVIDER			
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operations and Logistics			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 3	3		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14670	Utilise wooden train staff system of train control for safe movement on rail	Level 3	3	Will occur as soon as 264394 is registered

SPECIFIC OUTCOME 1

Explain the use of the wooden train staff system of train control.

SPECIFIC OUTCOME 2

Adhere to the specific instructions on the wooden train staff system.

SPECIFIC OUTCOME 3

Comply with the pre-determined train arrangement at unattended places.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

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Source: National	Learners:	Records	Database	Uni

Unit Standard 264394

27/03/2009



UNIT STANDARD:

Utilise radio order system of train control

SAQA US ID	UNIT STANDARD TITLE		
264396	Utilise radio order system of t	rain control	
ORIGINATOR	IATOR PROVIDER		
SGB Rail and Pipeline Operations			
FIELD		SUBFIELD	
11 - Services		Transport, Operation	ons and Logistics
ABET BAND UNIT STANDARD TYPE		NQF LEVEL	CREDITS
Undefined	Regular	Level 3	5

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14668	Utilise the radio train order system of train control	Level 3	3	Will occur as soon as
	for safe movement on rail			264396 is registered

SPECIFIC OUTCOME 1

Demonstrate an elementary understanding of the radio order system.

SPECIFIC OUTCOME 2

Communicate radio train order information.

SPECIFIC OUTCOME 3

Adhere to the en-route procedures.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database Unit Stand

Unit Standard 264396

27/03/2009



UNIT STANDARD:

Monitor railway stock and related equipment

SAQA US ID	UNIT STANDARD TITLE				
264397	Monitor railway stock and reli	Monitor railway stock and related equipment			
ORIGINATOR	RIGINATOR PROVIDER				
SGB Rail and Pipeli	ne Operations				
FIELD		SUBFIELD			
11 - Services	11 - Services		ons and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 4	10		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14626	Record of truck and locomotive movements (SPRINT) Spoornet information network	Level 4	10	Will occur as soon as 264397 is registered

SPECIFIC OUTCOME 1

Describe the rolling stock information management system.

SPECIFIC OUTCOME 2

Record information regarding movement of rolling stock on an information system.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National	Loomers'	Records	Database	
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Unit Standard 264397

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Utilise Van Schoor method of train control for safe movement on rail

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE				
264399	Utilise Van Schoor method of	Utilise Van Schoor method of train control for safe movement on rail				
ORIGINATOR		PROVIDER				
SGB Rail and Pipel	ine Operations					
FIELD	SUBFIELD					
11 - Services		Transport, Operations and Logistics				
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS			
Undefined	Regular	Level 3	5			

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14637	Utilise Van Schoor method of train control for safe movement on rail	Level 3	5	Will occur as soon as 264399 is registered

SPECIFIC OUTCOME 1

Explain the use of the Van Schoor method of train control.

SPECIFIC OUTCOME 2

Adhere to the specific instructions on the Van Schoor token and warning advice.

SPECIFIC OUTCOME 3

Comply with pre-determined train arrangements at unattended places.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL	
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3	
		Operations)		

Source: National Learners' Records Database	Unit Standard 264399
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27/03/2009



UNIT STANDARD:

Utilise telegraph order system for safe movement on rail

SAQA US ID	UNIT STANDARD TITLE				
264401	Utilise telegraph order system	Utilise telegraph order system for safe movement on rail			
ORIGINATOR PROVIDER					
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD	<u> </u>		
11 - Services		Transport, Operations and Logistics			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 3	5		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14622	Utilise telegraph order system for safe movement on rail	Level 3	5	Will occur as soon as 264401 is registered

SPECIFIC OUTCOME 1

Explain the use of the telegraph order system.

SPECIFIC OUTCOME 2

Adhere to the specific instructions on the telegraph order/token.

SPECIFIC OUTCOME 3

Comply with the pre-arranged crossing arrangement(s) at interloop(s).

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database

Unit Standard 264401

27/03/2009

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UNIT STANDARD:

Execute train operating contingency plans

SAQA US ID	UNIT STANDARD TITLE				
264417	Execute train operating contin	Execute train operating contingency plans			
ORIGINATOR					
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operations and Logistics			
ABET BAND UNIT STANDARD TYPE NQF LEVEL		CREDITS			
Undefined	Regular	Level 3	2		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14655	Execute train operating contigency plan	Level 3	2	Will occur as soon as 264417 is registered

SPECIFIC OUTCOME 1

Explain the company-specific contingency plan.

SPECIFIC OUTCOME 2

Explain the responsibilities of the various role-players.

SPECIFIC OUTCOME 3

Execute and terminate the contingency plan.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Unit Standard 264417 Source: National Learners' Records Database

27/03/2009



UNIT STANDARD:

Utilise pilot working for safe movement on rail

SAQA US ID	UNIT STANDARD TITLE				
264418	Utilise pilot working for safe n	Utilise pilot working for safe movement on rail			
ORIGINATOR	PROVIDER				
SGB Rail and Pipel	ne Operations				
FIELD	SUBFIELD				
11 - Services	- Services Transport, Operations and Logistics				
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL CREDITS			
Undefined	Regular	Level 4 4			

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14608	Utilise pilot working of train control for safe	Level 3	2	Will occur as soon as
	movement on rail			264418 is registered

SPECIFIC OUTCOME 1 Introduce pilot working.

SPECIFIC OUTCOME 2 Implement pilot working.

SPECIFIC OUTCOME 3 Terminate pilot working.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66709	National Certificate: Rail Operations (Functional Yard	Level 3
		Operations)	

Source: National Learners' Records Database Unit Standa

Unit Standard 264418

27/03/2009



Further Education and Training Certificate: Rail Operations (Train Control)

SAQA QUAL ID	QUALIFICATION TITLE			
66669	Further Education and Training Certificate: Rail Operations (Train Control)			
ORIGINATOR		PROVIDER		
SGB Rail and Pipeline Op	erations			
QUALIFICATION TYPE	FIELD	SUBFIELD		
Further Ed and Training Cert	11 - Services	Transport, Operations and Logistics		
ABET BAND	MINIMUM CREDITS	NQF LEVEL QUAL CLASS		
Undefined	120	Level 4 Regular-Unit Stds Based		

This qualification replaces:

Qual ID	Qualification Title	NQF Level	Min Credits	Replacement Status
24498	National Certificate: Rail Operations (Train Control)	Level 4	126	Will occur as soon as 66669 is registered

PURPOSE AND RATIONALE OF THE QUALIFICATION Purpose:

A learner qualifying in this qualification will be able to manage and plan train control for the safe and timeous movement of rail-bound vehicles from one point to another under planned and controlled conditions.

A learner who has achieved this qualification will have extensive theoretical and practical knowledge and skills of all systems of train control as required. This qualification will also form the platform to proceed to Transport Management and Transport Logistics Management qualifications.

Qualifying learners will be capable of:

- · Coordinating the maintenance of a rail track.
- Administering train control methods for safe movement on rail.
- Applying suitable train control procedures during degraded mode.

Rationale:

A safe and efficient rail transport system provides a key service for the transport sector of an economy. This qualification is intended for new entrants as well as existing personnel to gain formal recognition for learning in rail operations (yard personnel and train control). It will serve to equip qualifying learners with the ability to perform functions related to administering train control methods and systems for the safe movement on rail.

This unit standards-based qualification was generated to provide an opportunity for entry into the rail operations industry at NQF Level 4, a foundation for further learning at NQF level 5 as well as for further development from NQF Level 3.

Source: National Learners' Records Database	Qualification 66669	27/03/2009	Page 1
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The aim of this qualification is to create a life-long learning environment in which the individual can build on a personal career in the Rail transportation sector. The Functional Yard Operations qualification and various skills programmes that exist will allow learners to progress to a national qualification in Train Control.

RECOGNIZE PREVIOUS LEARNING?

LEARNING ASSUMED IN PLACE

It is assumed that the learner attempting this qualification is competent in:

- Communication at NQF Level 3.
- Mathematical Literacy at NQF Level 3.

Recognition of Prior Learning:

This Qualification and all fundamental, core and elective Unit Standards associated with it can be achieved by any learner through the recognition of prior learning, which includes learning outcomes achieved through formal, informal and non-formal learning and work experience. Learner and assessor will jointly decide on methods to determine prior learning and competence in the knowledge, skills, values and attitudes implicit in the qualification and the associated unit standards.

This Recognition of Prior Learning may allow for:

- Gaining of credits for unit standards in this qualification.
- · Obtaining this qualification in whole.

All Recognition of Prior Learning is subject to quality assurance by the relevant ETQA or an ETQA that has a Memorandum of Understanding with the relevant ETQA.

Access to the Qualification:

• There is open access to this Qualification.

QUALIFICATION RULES

The Qualification consists of a Fundamental, a Core and an Elective Component.

To be awarded the Qualification learners are required to obtain a minimum of 120 credits as detailed below.

Fundamental component:

The Fundamental Component consists of Unit Standards in:

- Mathematical Literacy at Level 4 to the value of 16 credits.
- Communication at Level 4 in a First South African Language to the value of 20 credits.
- Communication in a Second South African Language at Level 3 to the value of 20 credits.

It is compulsory therefore for learners to do Communication in two different South African languages, one at Level 4 and the other at Level 3.

All Unit Standards in the Fundamental Component are compulsory.

Source: National Learners' Records Database

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Core component:

• The Core Component consists of Unit Standards to the value of 50 credits all of which are compulsory.

Elective component:

• The Elective Component consists of individual unit standards from which the learner must choose unit standards totalling a minimum of 14 credits.

EXIT LEVEL OUTCOMES

1. Co-ordinate the use of a Heavy Tamping Machine for rail track maintenance.

2. Administer train control methods for safe movement on rail.

3. Apply suitable train control procedures during degraded mode.

ASSOCIATED ASSESSMENT CRITERIA

Assessment Criteria for Exit Level Outcome 1:

1.1. The Heavy Tamping Machine is despatched and protected in accordance with organisational standards and procedures.

1.2. Appropriate train control systems are applied during the working of the Tamping Machine according to organisational standards and procedures.

1.3. The despatching procedures of trains during the working of the Tamping Machine on the relevant train control system are applied according to organizational standards and procedures.

Assessment Criteria for Exit Level Outcome 2:

2.1. Rail movements are designed and implemented according to movement information,

operational requirements and calculated running times. 2.2. Telegraph orders and warning advices are issued according to information on exchanged messages and train crossings arrangements diagrams.

2.3. Colour light signals and points are operated from a console or panel and reaction is ensured to be in accordance with organisational requirements.

2.4. Pilot working of train control is planned, implemented and terminated in accordance with train working rules.

2.5. Train movement is recorded and communicated according to train working rules.

Assessment Criteria for Exit Level Outcome 3:

3.1. Planned and unplanned interruptions are explained in terms of their characteristics and impact on the execution of the train service.

3.2. Train control procedures are implemented during degraded mode in accordance with train working rules for relevant systems.

3.3. Reporting protocol to communicate degraded mode is adhered to in terms of the organisational structure.

Integrated Assessment:

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

Source: National Learners' Records Database

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

While the generic components of this qualification at NQF Level 3 can be assessed through occupational contexts and activities relating to Train Operations, care must be taken in both the learning programme and the assessment to ensure that these foundational skills are portable. The primary aim of this qualification is to ensure that learners have a sound general foundation to prepare them for further learning towards a specialised role in their chosen career path. Learners must be able to transfer generic skills across a number of different contexts, and apply them within a number of learning areas.

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

INTERNATIONAL COMPARABILITY

International and National benchmarking was done throughout the standard writing process.

The UK courseware received, was not applicable to the South African environment and the competence profiles do not match the related profiles in South Africa.

The yard operations, as well as the roles within the South African context, differ totally in comparison with that in the UK rail environment.

The competency descriptions/profiles also vary within Spoornet, Metrorail, OREX, Coallink and other private rail-related companies, but the project team compiled standards that will cover the whole spectrum within the rail environment in South Africa.

Rail Transportation Workers (USA) advertise various jobs for the USA rail market, but if it is compared with the South African market and competency profiles, then it does not match any competencies at all.

ARTICULATION OPTIONS

The possibility exists for vertical articulation with this Qualification. The following qualifications serve as examples of vertical articulation:

• ID 63529: National Certificate: Railway Signaling Technology, NQF Level 5.

• ID 57407: National Diploma: Train Driving (Mainline Operations), NQF Level 5.

• ID: 61489: National Certificate: Transport Operations, NQF Level 5.

Examples of horizontal articulation with this Qualification:

• ID 24498: Further Education and Training Certificate: Rail Operations: Train Control, NQF Level 4.

• ID 61670: Further Education and Training Certificate: Railway Construction and Maintenance, NQF Level 4.

• ID 49067: Further Education and Training Certificate: Railway Signalling: Fault-finding and Repair of Equipment, NQF Level 4.

MODERATION OPTIONS

Source: National Learners' Records Database

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• Any institution offering learning that will enable achievement of this qualification and the associated unit standards must be accredited by the relevant ETQA.

- External Moderation of assessment will be overseen by the relevant ETQA at its discretion.
- The accredited Training Provider will oversee internal moderation of assessment.

• Internal and external moderation should encompass achievement of competence described in the exit level outcomes of the qualification as well as the integrated competence described in the purpose of the qualification.

NOTES

This qualification replaces qualification 24498, "National Certificate: Rail Operations (Train Control)", Level 4, 126 Credits.

UNIT STANDARDS

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	Level 3	5
Fundamental	119457	interpret and use information from texts	Level 3	5
Fundamental	119467	Use language and communication in occupational learning programmes	Level 3	5
Fundamental	119465	Write/present/sign texts for a range of communicative contexts	Level 3	5
Fundamental	9015	Apply knowledge of statistics and probability to critically Lu interrogate and effectively communicate findings on life related problems		6
Fundamental	7484	Describe, represent, analyse and explain changes in shape and motion in 2- and 3-dimensional space with justification	Level 4	4
Fundamental	119462	Engage in sustained oral/signed communication and evaluate spoken/signed texts	Level 4	5
Fundamental	119469	Read/view, analyse and respond to a variety of texts	Level 4	5
Fundamental	119471	Use language and communication in occupational learning programmes	Level 4	5
Fundamental	7468	Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues	Level 4	6
Fundamental	119459	Write/present/sign for a wide range of contexts	Level 4	5
Core	264373	Administer telegraph orders for safe movement on rail	Level 4	10
Core	264242	Co-ordinate operations of the heavy tamping machine	Level 4	3
Core	264379	Control rail movement by operating colour-light signals	Level 4	12
Core	260920	Explain the topographical concepts of a trajectory within the rail environment	Level 4	10
Core	264340	Administer pilot working of train control for safe movement on rail	Level 5	5
Core	264382	Develop a train service	Level 5	10
Elective	262449	Devise strategies for the maintenance of a healthy lifestyle	Level 3	4
Elective	<u>116714</u>	Lead a team, plan, allocate and assess their work	Level 3	4
Elective	264337	Administer Van Schoor system of train control for safe movement on rail	Level 4	10
Elective	264414	Administer radio train order system of train control for safe movement on rail	Level 4	5
Elective	264404	Administer wooden train staff system of train control for safe movement on rail	Level 4	5
Elective	264336	Control rail movement by operating semaphore signals and indicators on a double line system	Level 4	7
Elective	264334	Control rail movement by operating semaphore signals on single lines	Level 4	5
Elective	116594	Function in a team	Level 4	4
Elective	264415	Administer track warrant system of train control for safe movement on rail	Level 5	8

Source: National Learners' Records Database

Qualification 66669

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LEARNING PROGRAMMES RECORDED AGAINST THIS QUALIFICATION None

Source: National Learners' Records Database

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UNIT STANDARD:

Co-ordinate operations of the heavy tamping machine

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE				
264242	Co-ordinate operations of the	Co-ordinate operations of the heavy tamping machine				
ORIGINATOR		PROVIDER				
SGB Rail and Pipel	ine Operations					
FIELD		SUBFIELD				
11 - Services	Transport, Operations and Logistics					
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL CREDITS				
Undefined	Regular	Level 4	3			

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14648	Interface with trains during the working of the tamping	Level 4	3	Will occur as soon as 264242 is registered

SPECIFIC OUTCOME 1

Comply with the instructions for the working of the Heavy Tamping Machine.

SPECIFIC OUTCOME 2

Despatch Heavy Tamping Machine.

SPECIFIC OUTCOME 3

Protect Heavy Tamping Machine.

SPECIFIC OUTCOME 4

Despatch trains during the working of the Heavy Tamping Machine.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit S

Unit Standard 264242

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UNIT STANDARD:

Control rail movement by operating semaphore signals on single lines

SAQA US ID	UNIT STANDARD TITLE				
264334	Control rail movement by ope	Control rail movement by operating semaphore signals on single lines			
ORIGINATOR		PROVIDER			
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operatio	ons and Logistics		
ABET BAND	UNIT STANDARD TYPE	NIT STANDARD TYPE NQF LEVEL CREDITS			
Undefined	Regular	lar Level 4 5			

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14593	Control rail movement by operating semaphore	Level 5	5	Will occur as soon as
	signals and Indicators on on single lines			264334 is registered

SPECIFIC OUTCOME 1

Describe the station control layout.

SPECIFIC OUTCOME 2

Plan rail movement.

SPECIFIC OUTCOME 3

Operate lever-frame of semaphore signals and indicators.

SPECIFIC OUTCOME 4

Apply station opening and closing procedures.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit Standard 264334

27/03/2009



UNIT STANDARD:

Control rail movement by operating semaphore signals and indicators on a double line system

UNIT STANDARD TITLE

SAQA US ID	UNIT STANDARD TITLE			
264336	Control rail movement by operating semaphore signals and indicators on a double line system			
ORIGINATOR	GINATOR PROVIDER			
SGB Rail and Pipel	ine Operations			
FIELD		SUBFIELD		
11 - Services		Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS	
Undefined	Regular	Level 4	7	

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14606	Control rail movement by operating semaphore	Level 5	10	Will occur as soon as
	signalled double lines and indicators			264336 is registered

SPECIFIC OUTCOME 1

Describe the station control layout.

SPECIFIC OUTCOME 2 Plan rail movement.

SPECIFIC OUTCOME 3 Operate lever-frame of semaphore signals and indicators.

SPECIFIC OUTCOME 4

Apply station-opening and closing procedures.

SPECIFIC OUTCOME 5

Operate the semaphore signalling system in degraded mode.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit Standard 264336

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UNIT STANDARD:

Administer Van Schoor system of train control for safe movement on rail

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264337	Administer Van Schoor syste	Administer Van Schoor system of train control for safe movement on rail			
ORIGINATOR	ORIGINATOR PROVIDER				
SGB Rail and Pipel	ine Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operations and Logistics			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 4	10		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14629	Administer Van Schoor system of train control for	Level 4	10	Will occur as soon as
	safe movement on rail			264337 is registered

SPECIFIC OUTCOME 1

Plan rail movement.

SPECIFIC OUTCOME 2 Make rail movement arrangements.

SPECIFIC OUTCOME 3

Authorise rail movement.

SPECIFIC OUTCOME 4

Communicate and record train movement according to train working rules.

SPECIFIC OUTCOME 5

Operate the Van Schoor instruments.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit St

Unit Standard 264337

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UNIT STANDARD:

Administer pilot working of train control for safe movement on rail

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264340	Administer pilot working of tra	Administer pilot working of train control for safe movement on rail			
ORIGINATOR		PROVIDER			
SGB Rail and Pipeli	Pipeline Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operations and Logistics			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 5	5		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14644	Administer and manage pilot working of train control for safe movement on rail	Level 5	4	Will occur as soon as 264340 is registered

SPECIFIC OUTCOME 1

Plan pilot working.

SPECIFIC OUTCOME 2 Introduce pilot working.

SPECIFIC OUTCOME 3 Implement pilot working.

SPECIFIC OUTCOME 4

Communicate relevant information continually.

SPECIFIC OUTCOME 5

Terminate pilot working.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit S

Unit Standard 264340

27/03/2009



UNIT STANDARD:

Administer telegraph orders for safe movement on rall

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264373	Administer telegraph orders f	Administer telegraph orders for safe movement on rail			
ORIGINATOR	PROVIDER				
SGB Rail and Pipel	ine Operations	ne Operations			
FIELD		SUBFIELD			
11 - Services		Transport, Operations and Logistics			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 4	10		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14624	Administer telegraph orders for safe movement on rail	Level 5	10	Will occur as soon as 264373 is registered

SPECIFIC OUTCOME 1

Plan rail movement.

SPECIFIC OUTCOME 2 Make rail movement arrangements.

SPECIFIC OUTCOME 3

Authorise rail movement.

SPECIFIC OUTCOME 4

Communicate and record train movement according to train working rules.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit Standard 264373

27/03/2009



UNIT STANDARD:

Control rail movement by operating colour-light signals

SAQA US ID	UNIT STANDARD TITLE				
264379	Control rail movement by ope	Control rail movement by operating colour-light signals			
ORIGINATOR		PROVIDER			
SGB Rail and Pipel	ine Operations	rations			
FIELD	SUBFIELD				
11 - Services		Transport, Operations and Logistics			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 4 12			

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14616	Control rail movement by operating colour-light signals	Level 5	15	Will occur as soon as 264379 is registered

SPECIFIC OUTCOME 1

Describe the station and section layout.

SPECIFIC OUTCOME 2

Plan rail movement.

SPECIFIC OUTCOME 3

Operate colour light signals and points from a console or panel.

SPECIFIC OUTCOME 4

Operate the colour light signalling system in degraded mode.

SPECIFIC OUTCOME 5

Apply station opening and closing procedures.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit Standard 264379

27/03/2009



UNIT STANDARD:

Develop a train service

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264382	Develop a train service	Develop a train service			
ORIGINATOR		PROVIDER			
SGB Rail and Pipel	ine Operations	rations			
FIELD		SUBFIELD			
11 - Services		Transport, Operatio	ons and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL CREDITS			
Undefined	Regular	Level 5	10		

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14651	Plan, manage and communicate the train service	Level 5	10	Will occur as soon as 264382 is registered
14652	Plan, manage and execute occupation requests for maintenance of track and related infrastructure on rait	Level 5	5	Will occur as soon as 264382 is registered

SPECIFIC OUTCOME 1

Capture train requirement information.

SPECIFIC OUTCOME 2 Plan a train service.

SPECIFIC OUTCOME 3

Monitor the train movement in accordance with the plan.

SPECIFIC OUTCOME 4

Demonstrate knowledge of procedures to be implemented during degraded mode.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Core	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit Standard 264382

27/03/2009



UNIT STANDARD:

Administer wooden train staff system of train control for safe movement on rall

SAQA US ID	UNIT STANDARD TITLE	UNIT STANDARD TITLE			
264404	Administer wooden train staff	Administer wooden train staff system of train control for safe movement on rail			
ORIGINATOR	OR PROVIDER				
SGB Rail and Pipel	GB Rail and Pipeline Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operations and Logistics			
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL CREDITS			
Undefined	Regular Level 4 5				

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14649	Administer wooden train staff system of train control for safe movement on rail	Level 4	5	Will occur as soon as 264404 is registered

SPECIFIC OUTCOME 1

Plan rail movement.

SPECIFIC OUTCOME 2

Make rail movement arrangements.

SPECIFIC OUTCOME 3

Authorise rail movement.

SPECIFIC OUTCOME 4

Communicate and record train movement according to train working rules.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database

Unit Standard 264404

27/03/2009



UNIT STANDARD:

Administer radio train order system of train control for safe movement on rail

SAQA US ID	UNIT STANDARD TITLE				
264414	Administer radio train order s	Administer radio train order system of train control for safe movement on rail			
ORIGINATOR PROVIDER					
SGB Rail and Pipel	SGB Rail and Pipeline Operations				
FIELD		SUBFIELD			
11 - Services		Transport, Operation	ons and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS		
Undefined	Regular	Level 4 5			

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14635	Administer radio train order system of train control	Level 5	5	Will occur as soon as
	for safe movement on rail			264414 is registered

SPECIFIC OUTCOME 1

Plan rail movement.

SPECIFIC OUTCOME 2 Make rail movement arrangements.

SPECIFIC OUTCOME 3

Authorise rail movement by radio.

SPECIFIC OUTCOME 4

Communicate and record train movement according to train working rules.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit Standard 264414

27/03/2009



UNIT STANDARD:

Administer track warrant system of train control for safe movement on rail

SAQA US ID	AQA US ID UNIT STANDARD TITLE			
264415	Administer track warrant syst	Administer track warrant system of train control for safe movement on rail		
ORIGINATOR		PROVIDER		
SGB Rail and Pipel	ine Operations			
FIELD		SUBFIELD		
11 - Services		Transport, Operations and Logistics		
ABET BAND	UNIT STANDARD TYPE	NQFLEVEL	CREDITS	
Undefined	Regular	Level 5	8	

This unit standard replaces:

US ID	Unit Standard Title	NQF Level	Credits	Replacement Status
14647	Administer track warrant system of train control for	Level 5	8	Will occur as soon as
	safe movement on rail			264415 is registered

SPECIFIC OUTCOME 1

Plan rail movement.

SPECIFIC OUTCOME 2

Make rail movement arrangements.

SPECIFIC OUTCOME 3

Authorise rail movement.

SPECIFIC OUTCOME 4

Communicate and record train movement according to train working rules.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	66669	Further Education and Training Certificate: Rail Operations	Level 4
		(Train Control)	

Source: National Learners' Records Database Unit Standard 264415

27/03/2009