

**National Vocational Certificate in Road Construction and Maintenance (Level 4) with Specialist Strands in: Routine Maintenance Foreman; Earthworks Foreman; Layerwork Foreman; Bitumen Surfacing Foreman; Concrete Operations Foreman; Road Marking Foreman; Road Signage Foreman; Crusher Operations Foreman; Traffic Accommodation Officer; and Periodic Maintenance Foreman**

level of qualification: 4

credit total: 125 - 181

Compulsory	
level 1 credits:	-
level 2 credits:	6
level 3 credits:	9
level 4 credits:	98

	Routine Maintenance Strand		Earthworks Strand		Layerwork Strand	
	Compulsory	Elective	Compulsory	Elective	Compulsory	Elective
level 4 credits:	20	-	12	-	27	-
level 5 credits:	-	-	-	-	-	-
<b>Total credits:</b>	133		125		140	

	Bitumen Surfacing Strand		Concrete Operations Strand		Road Marking Strand	
	Compulsory	Elective	Compulsory	Elective	Compulsory	Elective
level 4 credits:	20	-	58	10	12	-
level 5 credits:	-	-	-	-	-	-
<b>Total credits:</b>	133		181		125	

	Road Signage Strand		Crusher Operations Strand		Traffic Accommodation Officer	
	Compulsory	Elective	Compulsory	Elective	Compulsory	Elective
level 4 credits:	12	-	20	-	-	-
level 5 credits:	-	-	-	-	15	-
<b>Total credits:</b>	125		133		138	

	Periodic Maintenance Strand	
	Compulsory	Elective
level 4 credits:	20	-
level 5 credits:	-	-
<b>Total credits:</b>	133	

**registration date:** 27 March 2013

**scheduled review date:** 2017

**body responsible for the qualification:**

Road Authority as part of the Mining, Quarrying, Construction, Electricity Gas, Water Supply, and Sanitation Industry Skills Committee of the Namibia Training Authority

**other bodies whose unit standards are included in the qualification:**

None.

**1 purpose**

This qualification is a direct response to the continuous effort of the Roads Authority to address the lack of adequately skilled human resources in road construction and maintenance. It recognises people who have the competencies required for supervising work teams and work activities in road construction and maintenance as a Foreman.

This qualification has a number of Specialist Strands, each recognising significant areas of work for which Foremen in this industry sector are given responsibility for supervising.

The design of this qualification is premised on the assumption that people seeking the award of this qualification already have a National Vocational Certificate at Level 3 relevant to the Subfield of Road Construction and Maintenance (or a comparable qualification) and/or significant and recent work experience at a level of competency comparable to Level 3 or above of the National Qualifications Framework of Namibia, ideally in the area of work aligned to one or more of the Specialist Strands.

People working as Foremen in this sector are generally required to have a valid driving licence *Code C 1* or equivalent as this is necessary for transporting workers, materials, plant, machinery or equipment.

**outcome for whole qualification**

Holders of this qualification are able to undertake first-line supervision of work involved in the construction, maintenance, and repair of roads and adjoining land and infrastructure. The supervision is direct and immediate and is directed to assigned subordinates working in designated functions.

## 2 regulations for the qualification

### 2.1 summary of qualification requirements

This qualification will be awarded to people who meet the requirements of the Compulsory section and *one* of the Specialist Strands.

### 2.2 detailed qualification requirements

#### Compulsory

*All the unit standards listed below are required.*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Core

Unit No.	Unit Standard Title	Level	Credit
712	Comply with health, safety and environmental rules and regulations in road construction and maintenance work operations	2	6
1056	Demonstrate knowledge of road construction and maintenance soil materials and related tests	4	4
1057	Demonstrate knowledge of drainage for road construction and maintenance work	3	6
1058	Apply calculation and measurement skills in setting out a work area and determining material needs	4	8

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1046	Demonstrate awareness of the road construction and maintenance industry as a Foreman	4	2
1047	Determine and plan a team for work in road construction and maintenance	4	8
1048	Supervise the use and storage of materials for road construction and maintenance work	4	6
1049	Supervise the utilisation and storage of plant and equipment for road construction and maintenance work	4	6
1050	Supervise work teams in road construction and maintenance	4	8
1051	Supervise health and safety on a road construction and maintenance worksite	4	6
1052	Undertake site administration duties as a road construction and maintenance Foreman	4	6
1053	Supervise temporary traffic accommodation controls on a road construction and maintenance worksite	4	6

1054	Monitor resource costs and production on a road construction and maintenance worksite	4	6
1055	Undertake routine quality assurance actions on a road construction and maintenance worksite	4	8
1059	Read and interpret specific conditions in contracts for road construction and maintenance as a Foreman	4	6
1060	Identify and liaise with persons affected by road construction and maintenance activities	4	3
1061	Supervise subcontract work on a road construction and maintenance worksite	4	8
1062	Train workers on-the-job in road construction and maintenance	4	10

### **Specialist Strand – Routine Maintenance Foreman**

#### **Strand Compulsory**

*The following unit standard is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

<b>Unit No.</b>	<b>Unit Standard Title</b>	<b>Level</b>	<b>Credit</b>
1063	Supervise routine maintenance of roads and related infrastructure as a foreman	4	20

### **Specialist Strand – Earthworks Foreman**

#### **Strand Compulsory**

*The following unit standard is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

<b>Unit No.</b>	<b>Unit Standard Title</b>	<b>Level</b>	<b>Credit</b>
1064	Supervise earthworks in road construction as a foreman	4	12

**Specialist Strand – Layerwork Foreman****Strand Compulsory**

*The following unit standards are required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1064	Supervise earthworks in road construction as a foreman	4	12
1065	Plan, organise and supervise layerwork activity in road construction as a foreman	4	15

**Specialist Strand – Bitumen Surfacing Foreman****Strand Compulsory**

*The following unit standard is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1066	Supervise bituminous surface sealing in road construction as a foreman	4	20

**Specialist Strand – Concrete Operations Foreman****Strand Compulsory**

*The following unit standards are required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1067	Supervise the production and use of concrete on a road construction site as a Foreman	4	15
1068	Supervise the sealing and repair of concrete structures on a road construction site as a Foreman	4	10
1071	Supervise the construction and installation of drainage structures in road construction as a foreman	4	15

1072	Supervise reinforcing activities for concrete work in road construction as a foreman	4	12
1073	Supervise the fabrication and/or placing of formwork for concrete work in road construction as a foreman	4	6

### Strand Elective

*One of the following unit standards is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1069	Supervise the production of pre-cast concrete elements for road construction site as a Foreman	4	10
1070	Supervise the erection and dismantling of scaffolding on a road construction site as a Foreman	4	10

### Specialist Strand – Road Marking Foreman

#### Strand Compulsory

*The following unit standard is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1074	Supervise road marking operations in road construction as a Foreman	4	12

**Specialist Strand – Road Signage Foreman****Strand Compulsory**

*The following unit standard is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1075	Supervise the installation of road signs in road construction as a Foreman	4	12

**Specialist Strand – Crusher Operations Foreman****Strand Compulsory**

*The following unit standard is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1076	Supervise the crushing of materials for road construction as a Foreman	4	20

**Specialist Strand – Traffic Accommodation Officer****Strand Compulsory**

*The following unit standard is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

Unit No.	Unit Standard Title	Level	Credit
1077	Supervise the control of traffic on a road construction and maintenance site as a Traffic Accommodation Officer	5	15

### **Specialist Strand – Periodic Maintenance Foreman**

#### **Strand Compulsory**

*The following unit standard is required:*

FIELD: PHYSICAL PLANNING AND CONSTRUCTION

Subfield: Road Construction and Maintenance

Domain: Road Construction and Maintenance - Supervision

<b>Unit No.</b>	<b>Unit Standard Title</b>	<b>Level</b>	<b>Credit</b>
1078	Supervise the periodic maintenance of gravel or salt roads as a foreman	4	20

### **3 Credit recognition and transfer arrangements**

Credits for any version of a unit standard with the same identification number will be recognised in the award of this qualification.

### **4 Special Arrangements**

4.1 Special Arrangements apply to the accreditation of providers offering learning pathways to and/or undertaking assessments relating to all unit standards listed in this qualification under the Subfield of Roads Construction and Maintenance. These Special Arrangements are available from:

Roads Technical Training Unit (RTTU)  
Private Bag 12030  
Windhoek  
Namibia  
Telephone number: 061-227813  
Facsimile number: 061-227818

4.2 Special Arrangements may apply to the accreditation of providers offering learning pathways to and/or undertaking assessment relating to all unit standards listed in this qualification in other Subfields and Domains. These Special Arrangements are available from:

Namibia Qualifications Authority  
44 Bismarck St.  
Windhoek  
Namibia  
Telephone number: 061-384116  
Facsimile number: 061-384114  
Email: [info@namqa.org](mailto:info@namqa.org)



Namibia Training Authority  
Rand Street  
Khomasdal  
Namibia  
Telephone number: 061-27 9550  
Facsimile number: 061-27 9551  
Email [info@nta.com.na](mailto:info@nta.com.na)

- 4.3** Regardless of the above, providers seeking accreditation through the relevant authorities must have or have confirmed access to all equipment and facilities detailed in the Special Notes, Performance Criteria and/or Range Statements in the unit standards that are included in this qualification.

## **5 transition arrangements**

### **5.1 non National Qualifications Framework transition**

This is a new qualification. It does not replace any existing qualification in Namibia.

### **5.2 National Qualifications Framework transition**

This is the first version of this qualification.