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## OCCUPATIONAL SKILLS PROGRAMME CURRICULUM DOCUMENT

**IN LINE WITH THE QSF POLICY (2021) OCCUPATIONAL QUALIFICATION TYPE  
(NOMENCLATURE)**

QUALIFICATION/PART-QUALIFICATION/SKILLS PROGRAMME	SKILLS PROGRAMME ID	TITLE (DESCRIPTOR)	NQF LEVEL	CREDITS
Skills Programme	SP-241201	Proficient Road Transport Dangerous Goods Driver	3	8
<b>CURRICULUM CODE</b>	900282-000-00-00			
PARTNER DETAILS	ORGANISATION NAME	WEBSITE ADDRESS	TELEPHONE NUMBER	LOGO
QUALITY PARTNER - DEVELOPMENT	Transport Education Training Authority (TETA)	<a href="https://teta.org.za/">https://teta.org.za/</a>	(011) 577 7017	 <p style="text-align: center;">Transport Education Training Authority <i>Driven by Vision</i></p>

# Contents

SECTION 1: CURRICULUM SUMMARY .....	3
1.1 Occupational Information: .....	3
1.2 Curriculum Information: .....	3
1.3 Curriculum Structure: .....	3
1.4 Entry Requirements: .....	4
1.5 Recognition of Prior Learning (RPL):.....	4
1.6 Quality Partner for Assessment:.....	5
1.7 List of Qualification(s)/Part- Qualification(s)/Skills Programme(s) Related to this Curriculum ....	5
SECTION 2: OCCUPATIONAL/SPECIALISATION/PART-QUALIFICATION/SKILLS PROGRAMME PROFILE .....	5
2.1 Purpose: .....	5
2.2 Tasks: .....	5
2.3 Occupational Task Details:.....	6
SECTION 3: CURRICULUM COMPONENT SPECIFICATIONS.....	6
3 Knowledge Module Specifications:.....	6
3.1 Knowledge Module (KM) – 01: 900282-000-00-00-KM-01, Dangerous Goods Classification, NQF Level 3, Credits 1 .....	8
3.2 Knowledge Module (KM) – 02: 900282-000-00-00-KM-02, Dangerous Goods Legislation and Regulations, NQF Level 3, Credits 1 .....	18
3.3 Knowledge Module (KM) – 03: 900282-000-00-00-KM-03, Dangerous Goods Responsibilities and Duties, NQF Level 3, Credits 1 .....	29
4 Practical Skill Module (PM) Specifications:.....	38
4.1. Practical Module (PM) – 01: 900282-000-00-00-PM-01, Complete documents for road transport of dangerous goods, NQF Level 3, Credits 1 .....	39
4.2..... Practical Module (PM) - 02: 900282-000-00-00-PM-02, Check and implement compliance checks on documentation in terms of legislative requirements, NQF Level 3, Credits 1 .....	45
4.3..... Practical Module (PM) - 03: 900282-000-00-00-PM-03, Conduct pre-, in-transit, and post-trip inspections and general safety compliance, NQF Level 3, Credits 1 .....	52
4.4. Practical Module (PM) - 04: 900282-000-00-00-PM-04, Complete documents for road transport of dangerous goods, NQF Level 3, Credits 2 .....	58
5 POSSIBLE SEQUENCING AND INTEGRATION.....	67

## SECTION 1: CURRICULUM SUMMARY

### 1.1 Occupational Information:

#### 1.1.1 Associated, Organising Framework for Occupations (OFO) Occupational Code and Title

733204: Tanker Driver

#### 1.1.2 Occupation/Specialisation/Part-Qualification/Skills Programme Type, Title, NQF Level, Credits and Curriculum Code, addressed by this Curriculum.

TYPE	TITLE	NQF LEVEL	CREDITS	CURRICULUM CODE
Skills Programme	Proficient Road Transport Dangerous Goods Driver	3	8	900282-000-00-00

#### 1.1.3 Alternative titles used by industry:

Dangerous Goods Driver

### 1.2 Curriculum Information:

#### 1.2.1 Articulation for Qualifications and Part- Qualifications

N/A

#### 1.2.2 Articulation for Skills programmes

(a) Work Opportunities:

Employment as a dangerous Goods driver in various industries in the Dangerous Goods sector e.g., chemicals, agriculture, mining, manufacturing, rail, maritime, air, freight, road etc.

(b) Learning Opportunities:

Road transport supervisor, controllers, supervisor, scheduler environment, freight forwarding, consignment environment etc.

### 1.3 Curriculum Structure:

#### 1.3.1 Knowledge/Theory Modules:

900282-000-00-KM-01 Dangerous Goods Classification, NQF Level 3, Credits 1

900282-000-00-KM-02 Dangerous Goods Legislation and Regulations, NQF Level 3, Credits 1

900282-000-00-KM-03 Dangerous Goods Responsibilities and Duties, NQF Level 3, Credits 1

Total number of credits: 3

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

### **1.3.2 Practical Skills Modules:**

900282-000-001-PM-01, Complete documents for road transport of dangerous goods, NQF Level 3, Credits 1.

900282-000-001-PM-02, Check and implement compliance checks on documentation in terms of legislative requirements, NQF Level 3, Credits 1.

900282-000-001-PM-03, Conduct pre-, in-transit, and post-trip inspections and general safety compliance, NQF Level 3, Credits 1.

900282-000-001-PM-04, Handle, load, and offload dangerous goods, NQF Level 3, Credits 2.

Total number of credits: 5

### **1.3.3 Work Experience Modules:**

N/A

## **1.4 Entry Requirements:**

NQF Level 2 qualification

## **1.5 Recognition of Prior Learning (RPL):**

### **1.5.1 RPL for Access:**

Learners may use the RPL process to gain access to training opportunities for a programme of learning, qualification, part-qualification or skills programme if they do not meet the formal, minimum entry requirements for admission. RPL assessment provides an alternative access route into a programme of learning, qualification, part-qualification, or skills programme.

Such an RPL assessment may be developed, moderated and conducted by the accredited Skills Development Provider which offers that specific qualification/part qualification/skills programme. Such an assessment must ensure that the learner is able to display the equivalent level of competencies required for access, based on the NQF level descriptors.

### **1.5.2 RPL for Exemption:**

For exemption from modules through RPL, learners who have gained the stipulated competencies of the modules of a programme of learning, qualification, part-qualification or skills programme through any means of formal, informal or non-formal learning and/or work experience, may be awarded credits towards relevant modules, and gaps identified for training, which is then concluded.

### 1.5.3 RPL for awarding credits:

Learners who have gained the stipulated competencies of the modules of a programme of learning, qualification, part-qualification or skills programme through any means of formal, informal or non-formal learning and/or work experience, may be awarded credits towards relevant modules, and gaps identified for training, which is then concluded.

For a Skills Programme, the accredited Skills Development Provider (SDP) must ensure all modular competency requirements are met prior to the FISA and keep record of such evidence.

Upon successful completion of the FISA, RPL learners will be issued with the QCTO certificate for the skills programme. Quality Partners are responsible for ensuring the RPL mechanism and process for skills programme is approved by the QCTO.

### 1.6 Quality Partner for Assessment:

Not Applicable

### 1.7 List of Qualification(s)/Part- Qualification(s)/Skills Programme(s) Related to this Curriculum

Skills Programme: Road Transport Dangerous Goods Driver, NQF level 3, Credits 4

## SECTION 2: OCCUPATIONAL/SPECIALISATION/PART-QUALIFICATION/SKILLS PROGRAMME PROFILE

### 2.1 Purpose:

Proficient Road Transport Dangerous Goods Driver contribute to ensuring the safe, compliant, and efficient movement of dangerous goods by road in accordance with relevant national and international legislation. Drivers will demonstrate an ability to work with dangerous goods classification, documentation, loading and unloading, transport and handling protocols, and a commitment to safety and quality assurance.

### 2.2 Tasks:

TASK	LINKS TO ELO
Work with classification, documents and packaging and check compliance in terms of the 9 classes, the dangerous goods list, UN number proper shipping name (PSN), hazard class and packing instruction	Check compliance of various classes of dangerous goods documentation and packaging instruction using knowledge of applicable standards and legislation.
Handle, load, transport and offload dangerous goods and comply to health and safety requirements	Perform transport operations (including multi-modal requirements and safety requirements) applying knowledge of applicable legislation and standards.

## 2.3 Occupational Task Details:

### 2.3.1 Task 1

Check compliance of various classes of dangerous goods documentation and packaging instruction using knowledge of applicable standards and legislation.

(a) Unique Product or Service:

Classification and completed documentation.

(b) Responsibilities:

- Complete documents for road transport of dangerous goods
- Check and implement compliance checks on documentation in terms of legislative requirements.

### 2.3.2 Task 2

Perform transport operations by road including multi-modal and safety requirements by applying the knowledge and skills to handle, load, and offload dangerous goods and comply with health and safety requirements.

(a) Unique Product or Service:

Safe and efficient road transport of dangerous goods

(b) Responsibilities:

Complete documents for road transport of dangerous goods.

Check and implement compliance checks on documentation in terms of legislative requirements.

Conduct pre-, in-transit, and post-trip inspections and general safety compliance.

Handle, load, and offload dangerous goods

## SECTION 3: CURRICULUM COMPONENT SPECIFICATIONS

### 3 Knowledge Module Specifications:

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-KM-01	Dangerous Goods Classification	3	1	No restrictions. Face-to-face, or online, or blended

900282-000-00-KM-02	Dangerous Goods Legislation and Regulations	3	1	No restrictions. Face-to-face, or online, or blended
900282-000-00-KM-03	Dangerous Goods Responsibilities and Duties	3	1	No restrictions. Face-to-face, or online, or blended

## Detailing Knowledge Module (KM) contents

### 3.1 Knowledge Module (KM) – 01: 900282-000-00-KM-01, Dangerous Goods Classification, NQF Level 3, Credits 1

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-KM-01	Dangerous Goods Classification	3	1	No restrictions. Face-to-face, or online, or blended

#### 3.1.1 Module Details:

(a) Purpose of Knowledge Module:

The focus of the learning in this knowledge module is to provide an overview and build an understanding of classification in working with dangerous goods and meeting national and international legislative requirements.

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-01-KT01	Introduction to the 9 classes of dangerous goods transport Classification – packing groups and index systems	20%
KM-01-KT02	Identification, UN numbers and Proper Shipping Names – PSN	20%
KM-01-KT03	Chemical properties and their behaviour	10%
KM-01-KT04	Designated space and documents that must be carried in it	10%
KM-01-KT05	Transport hazard labels	10%
KM-01-KT06	The dangerous goods list	10%
KM-01-KT07	Globally Harmonised System of Classification and Labelling of Chemicals (GHS) classification – health and environment classes and categories	10%
KM-01-KT08	Globally Harmonised System of Classification and Labelling of Chemicals (GHS) pictograms and labelling principles	10%

(c) Detailing each topic listed above into topic elements:

KM-01-KT01... INTRODUCTION TO THE 9 CLASSES OF DANGEROUS GOODS TRANSPORT CLASSIFICATION – PACKING GROUPS AND INDEX SYSTEMS 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Principles and concepts of the 9 Classes of dangerous goods	25
KT0102	Sub-divisions, markings and labels	25
KT0103	Principles for classification	25
KT0104	Classes and quantities and compatibility	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Identify the different classes of dangerous goods and the implications for packaging, marking and labelling	30
IAC0102	Identify the principles of classification and its relationship to the nature of dangerous goods transported, physical, chemical and the toxicological properties of dangerous goods	30
IAC0103	Explain the implication of class of dangerous goods on the quantities transported as well as compatibility of classes during transport	40

KM-01-KT02... IDENTIFICATION, UN NUMBERS AND PROPER SHIPPING NAMES – PSN 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	Classification	30
KT0202	Packing groups and packaging types, certification and marking	30
KT0203	Dangerous goods list (DGL), UN Number and Proper Shipping Names – PSN	40

### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Explain classification of DG and the sub classes	50
IAC0202	Identify the different packing requirements and codes for multi modal transport	50

KM-01-KT03 CHEMICAL PROPERTIES AND THEIR BEHAVIOUR 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Storage and handling of containers carrying dangerous goods	50
KT0302	Chemical properties and PPE requirements	50

### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Explain importance of taking chemical properties of the product into account in the storage and handling of containers carrying dangerous goods according to the requirements of the Transport Emergency Card (TRECARD) or safety data sheet and dangerous goods declaration (DGD).	40
IAC0302	Explain importance of understanding the chemical properties of a load including whether it is Poisonous, Flammable, represent a hazard when in contact with extinguishing agent, Specific requirements regarding PPE in case of a Loss of Containment (LOC), whether present PPE is sufficient, whether current means of spill control is sufficient.	40

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

IAC0303	Explain importance of checking CTUs for chemical properties and the threshold limit value (TLV)	20
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KM-01-KT04 DESIGNATED SPACE AND DOCUMENTS THAT MUST BE CARRIED IN IT ...10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Designated space	30
KT0402	Colour, markings and position	30
KT0403	Legally required documents	40

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Describe what is a designated space and explain the requirements in accordance with the legislation	30
IAC0402	Describe the colour, markings and position in terms of the requirements of the legislation	30
IAC0403	Identify what are all the available and required documents in the designated space in terms of the specific load and in accordance with the legislation	40

KM-01-KT05 TRANSPORT HAZARD LABELS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0501	Marking and labelling	10
KT0502	Consequences of poor marking and labelling	10
KT0503	Dangerous goods consignments and CTUs	20
KT0504	Specifications and locations of placards, marks and signs	20

KT0505	General appearance (symbol, colour and shape) of the labels	20
KT0506	Signs, marks or labels and CTU at risk	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0501	List typical errors placards, marks or labels including not visible, wrongly placed, damaged, missing, incomplete, incorrect which includes unknown or mis-declared dangerous goods	10
IAC0502	Explain the consequences of poor marking and labelling in case of an incident including exposure to dangerous (reaction) product(s) due to wrong separation, injuries or even fatalities due to unknowingly fumigated containers, delays because of misconceptions and costs of correcting the placards.	10
IAC0503	Explain the positioning of dangerous goods consignments which form only part of the load of a CTU being packed adjacent to the doors with markings and labels visible.	20
IAC0504	Describe applicable dangerous goods regulations specifications of placards, marks and signs and the locations where they should be affixed.	20
IAC0505	Explain how dangerous goods are made easily recognisable by their general appearance (symbol, colour and shape) of the labels they bear	20
IAC0506	Identify how the exterior for signs, marks or other labels may indicate that the cargo may put those involved in unpacking the CTU at risk or a procedure to be followed.	20

KM-01-KT06 THE DANGEROUS GOODS LIST 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT

KT0601	Relationship between Proper Shipping Name” and a four-digit UN number and the Dangerous Goods List	25
KT0602	Dealing with substance or article with explosives characteristics	25
KT0603	Portable tank requirements	25
KT0604	Bulk containers (liquid, solid and gases)	25

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0601	<p>Explain how goods that are considered to be dangerous for transport are listed in the Dangerous Goods List and assigned a name (called a “Proper Shipping Name”) and a four-digit UN number, which may cover specific goods or groups of goods according to the hazard it poses in transport, assigned class and packing group (referencing the nine classes:</p> <p>Class 1: Explosives</p> <p>Class 2: Gases</p> <p>Class 3: Flammable liquids</p> <p>Class 4: Flammable solids; substances liable to spontaneous combustion; substances which, on contact with water, emit flammable gases</p> <p>Class 5: Oxidizing substances and organic peroxides</p> <p>Class 6: Toxic and infectious substances</p> <p>Class 7: Radioactive material</p> <p>Class 8: Corrosive substances</p> <p>Class 9: Miscellaneous dangerous substances and articles, including environmentally hazardous substances</p>	40

IAC0602	Explain the characteristics to look for when dealing with a substance or article that is suspected of having explosive characteristics	10
IAC0603	Explain the procedures relevant to dealing with a substance or article that is suspected of having explosive characteristics	20
IAC0604	Explain the importance of adhering to the guidelines for assigning portable tank requirements to substances listed in the Dangerous Goods List	20
IAC0605	Explain the importance of adhering to the requirements for bulk containers for the transport of solid substances listed in the Dangerous Goods List	10

KM-01-KT07 GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) CLASSIFICATION – HEALTH AND ENVIRONMENT CLASSES AND CATEGORIES ...10 %		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0701	Classification of hazardous chemical agents	25
KT0702	How to read a Safety Data Sheet	35
KT0703	Difference between GHS labels and Transport labels	40

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0701	Explain the importance to ensure that a GHS classification is carried out for the HCA	30
IAC0702	Explain importance of GHS compliance in terms of safety data sheet requirements	30
IAC0703	Explain the importance of correctly labelled selection and the use of label elements in accordance with the GHS and HCA requirements	40

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

KM-01-KT08 GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION, LABELLING OF CHEMICALS (GHS), PICTOGRAMS AND LABELLING PRINCIPLES ...10 %		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0801	Definitions of pictograms	50
KT0802	Uses of Pictograms	50

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0801	Identify what are pictograms and what are their uses	100

### 3.1.2 Criteria for accreditation

Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

#### Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
<b>EQUIPMENT &amp; TOOLS</b>	<ul style="list-style-type: none"> <li>Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module.</li> <li>Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant.</li> <li>All learning materials, lesson plans, workbooks, assessment guides to cover the related topics.</li> <li>Tools and standards for internal assessment</li> <li>Record keeping systems to capture learner data and issue a statement of results.</li> <li>All consumables required for provision of this module.</li> </ul>

	<ul style="list-style-type: none"> <li>• All assessment instruments to cover the related topics.</li> <li>• Tools and standards for internal assessment</li> </ul>
<b>CONSUMABLES</b>	All consumables required for provision of this module

<b>ASSESSMENT CENTRE</b>
Not applicable

**Human Resource Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<p>Facilitator must have a minimum NQF Level 5 facilitator competencies (Facilitation of learning in occupational contexts, or equivalent) and 5-year experience in dangerous goods.</p> <p>Assessment Official (SME) must have a minimum NQF Level 5 assessment competencies as an Assessment Practitioner (Assessment principles and practices and/or Plan and conduct the assessment of learner competencies, or equivalent) and 5-year experience in dangerous goods.</p>
<b>FACILITATOR/LEARNER RATIO</b>	Facilitator/learner ratio 1: maximum 20

<b>ASSESSMENT CENTRE</b>
Not applicable

<b>ASSESSMENT CENTRE</b>
Not applicable

**Legal Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<ul style="list-style-type: none"> <li>• CIPC registered entity</li> <li>• SARS Tax compliance pin</li> <li>• Compliant and current health and safety audit report</li> <li>• Relevant labour legislation visible in facility or on platform (as required by current legislation)</li> </ul>

	<ul style="list-style-type: none"> <li>• POPI policy</li> <li>• Approved by Minister of Transport in terms of National Road Traffic Act No. 93 of 1996 for dangerous goods drivers of all classes of vehicles</li> </ul>
<b>FACILITATOR/LEARNER RATIO</b>	N/A

<b>ASSESSMENT CENTRE</b>
Not applicable

**Additional Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>
None

<b>ASSESSMENT CENTRE</b>
None

**3.1.3 Exemptions**

N/A

### 3.2 Knowledge Module (KM) – 02: 900282-000-00-KM-02, Dangerous Goods Legislation and Regulations, NQF Level 3, Credits 1

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-KM-02	Dangerous Goods Legislation and Regulations	3	1	No restrictions. Face-to-face, or online, or blended

#### 3.2.1 Module Details:

(a) Purpose of Knowledge Module:

The focus of the learning in this knowledge module is to provide an overview and build an understanding of classification in working with dangerous goods and meeting national and international legislative requirements.

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-01-KT01	Introduction to dangerous goods	20%
KM-01-KT02	Principles of Transport of Dangerous Goods TDG	20%
KM-01-KT03	Introduction to the GHS	10%
KM-01-KT04	Dangerous Goods Training requirements	10%
KM-01-KT05	National DG and chemical related Regulations	10%
KM-01-KT06	Dangerous goods transport legislation	10%
KM-01-KT07	Principles of driving related Legislation, regulations, codes, and by-laws	10%
KM-01-KT08	Principles of warehousing, loading and off-loading	10%

(c) Detailing each topic listed above into topic elements:

KM-02-KT01... INTRODUCTION TO DANGEROUS GOODS 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT

KT0101	Dangerous goods, definitions and concepts	10
KT0102	Types of dangerous goods	10
KT0103	Regulatory framework, and the purpose of dangerous goods legislation	10
KT0104	Scope and significance	10
KT0105	Risks and hazards	10
KT0106	Roles and Responsibilities, accountability and training	10
KT0107	Safety measures, best practices, separation and segregation	10
KT0108	Environmental considerations	10
KT0109	Global perspective, CTU Packing Code of Practice	10
KT0110	UN Model Regulations and Modal Regulations	10

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Define dangerous goods, types of substances and materials, their properties and present risks to health, safety, and the environment.	20
IAC0102	Categorise dangerous goods into different classes and provide examples of each category (including explosives, flammable liquids, corrosive substances, and toxic materials).	10
IAC0103	Identify the national and relevant requirements of the Road Traffic Regulations, its substances and articles of dangerous goods.	10
IAC0104	Explain the scope of working with dangerous goods in various industries, including transport, manufacturing, chemical production, healthcare, and more and the importance to ensure public safety and protect the environment.	10
IAC0105	Explain the inherent risks and hazards associated with dangerous goods and the consequences of mishandling dangerous goods, including the potential for accidents, fires, explosions, chemical exposure, and environmental damage.	10

IAC0106	Identify the responsibilities of individuals, organisations, and regulatory authorities in working with dangerous goods and the need for continuous training on safety protocols, and compliance with regulations.	10
IAC0107	Identify the fundamental safety measures and best practices for working with dangerous goods including labelling, packaging, storage, transport, emergency response procedures, and personal protective equipment (PPE).	10
IAC0108	Explain environmental impact of dangerous goods and the importance of minimising harm through responsible practices	10
IAC0109	Explain the global nature of the supply chain and transport of dangerous goods and the need for international cooperation.	10

KM-02-KT02... PRINCIPLES OF TRANSPORT OF DANGEROUS GOODS TDG 20%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	UN Model Regulations	25
KT0202	ADR and IMDG Code	25
KT0203	CTU Packing code	25
KT0204	TRECARDS	25

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Describe Consignor and Consignee duties	20
IAC0202	Describe Operator duties	20
IAC0203	Describe pre and post loading actions	20
IAC0204	Describe pre, post and en route inspections	20
IAC0205	Describe incident reporting process	10
IAC0206	Describe emergency response actions	10

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

KM-02-KT03... INTRODUCTION TO THE GHS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Difference between GHS and TDG Labels	50
KT0302	Understand SDS and how to read it	50

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Identify difference between GHS and TDG labels	50
IAC0302	Explain the content of an SDS	50

KM-02-KT04... DANGEROUS GOODS TRAINING REQUIREMENTS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Classes of Dangerous Goods	20
KT0402	Understanding DG and behaviour of chemicals	20
KT0403	Compatibility, Separation and Segregation of dangerous goods	20
KT0404	Vehicle inspection, pre, post loading, and en route	20
KT0405	Loading, offloading and securement of cargo	10
KT0406	Emergency Response from driver	10

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Identify 9 classes of dangerous goods	20

IAC0402	Explain the principles of Compatibility, Segregation and Separation	20
IAC0403	Describe pre, post loading, and en route inspections	20
IAC0404	Describe loading, offloading and load securement process	20
IAC0405	Explain emergency response actions	20

KM-02-KT05... NATIONAL DG AND CHEMICAL RELATED REGULATIONS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0501	UN Model Regulations, National Regulations, ADR and IMDG Code	30
KT0502	Definitions (Part 1.2)	15
KT0503	Packing and Tank Provisions (Part 4)	35
KT0504	Packaging construction, testing & certification marks (Part 6 UN Orange books)	20

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0501	Describe local regulations regarding load weight, speed, driver hours, and resting periods.	30
IAC0502	Describe the requirements for packaging prior to loading	30
IAC0503	Describe load securement checks for packaged goods, CTU packing and Tankers.	40

KM-02-KT06... DANGEROUS GOODS TRANSPORT LEGISLATION 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0601	Purpose of the legislation and regulations	25

KT0602	Framework of legislation and regulations, UN Model Regulations, ADR and IMDG	50
KT0603	National regulations	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0601	Impact on the driver's job and responsibilities	50
IAC0602	What must be complied with	50

KM-02-KT07... PRINCIPLES OF DRIVING RELATED LEGISLATION, REGULATIONS, CODES, AND BY-LAWS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0701	Elements of the national Acts and Regulations relevant to the specific mode	30
KT0702	Aspects of the Occupational Health and Safety Act (OHSA) and HCA Regulations applicable to transport	20
KT0703	Standards, guidelines, and codes applicable to transport	20
KT0704	Specific considerations and additional requirements when transporting dangerous goods	20
KT0705	Carrying of firearms	10

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0701	Identify and relate the categories of licenses, as well as professional driving permits accurately to the vehicles to which they apply	15
IAC0702	Identify and explain relevant regulations within the NRTA	15

IAC0703	Describe the implications of the OHS Act on a rail driver	20
IAC0704	Explain the codes of practice applicable to drivers in the road transport industry	20
IAC0705	Explain that there are legal requirements for the transport of dangerous goods by road in South Africa and the neighbouring SADC countries, and that in addition, there are also various SANS standards to be considered when transporting dangerous goods	10
IAC0706	Explain what dangerous goods are and the reasons why there are additional requirements when transporting dangerous goods	10
IAC0706	Explain the procedures to be followed when carrying a firearm in the truck	10

KM-02-KT08 PRINCIPLES OF WAREHOUSING, LOADING AND OFF-LOADING 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0801	Compatibility and segregation	20
KT0802	Suitability of vehicle or container	10
KT0803	Safe loading	10
KT0805	Securing	5
KT0806	Off-loading	5
KT0807	Inspection of Cargo	5
KT0808	Standards for warehousing and emergency information	5
KT0809	Key Definitions and Responsibilities	5
KT0810	Route plans, Risk Assessments and Communications	5
KT0811	Multi-modal Documentation	5
KT0812	Driver requirements	5
KT0813	Vehicle Documentation	5

KT0814	Consignment and transport procedures (SANS 10231 and SANS 10263)	5
KT0815	Standard operating procedures	5
KT0816	Transfer of dangerous goods under emergency conditions	5

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0801	Identify the importance of UNTDG Part 5 Consignment Procedures including Marking and Labelling, Placarding and marking of CTU's and Bulk Containers and Documentation and Special Provisions	10
IAC0802	Identify the importance of UN Part 7 Provisions concerning Transport Operations by ALL Modes	10
IAC0803	Identify the importance of TDG and IMDG + SOLAS and MARPOL	10
IAC0804	Identify the importance of Loading and Securing – Packing of Vehicles/Containers – CTU Packing Code of Practice	5
IAC0805	Identify the importance of Inspection of Cargo unit / Cargo loading area before loading	5
IAC0806	Identify the importance of Preparation of Cargo for Loading, Compatibility and Checklists prior to Loading	5
IAC0807	Identify the significance of the SANS Standards – 10263 Warehousing, 10231 Operational Requirements and 10232 Emergency Information	5
IAC0808	Identify the importance of SOPs for loading and offloading processes, with responsibilities of driver and operational personnel.	5
IAC0809	Identify the key definitions and responsibilities as 10231 DG Operational Requirements driver, operator	5
IAC0810	Identify the document needed including Verified Gross Mass – SOLAS Regulation	5

IAC0811	Identify vehicle requirements to be met including DG licence, Placarding and safety equipment	5
IAC0812	Identify the driver requirements to be checked	10
IAC0813	Identify vehicle documentation required including DG Manifests, and TRECARD	10
IAC0814	Identify the key aspects of consignment and transport procedures relevant to road transport of dangerous goods	10

### 3.2.2 Criteria for accreditation

Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

#### Physical Requirements:

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>EQUIPMENT &amp; TOOLS</b>	<ul style="list-style-type: none"> <li>• Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module.</li> <li>• Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant.</li> <li>• All learning materials, lesson plans, workbooks, assessment guides to cover the related topics.</li> <li>• Tools and standards for internal assessment</li> <li>• Record keeping systems to capture learner data and issue a statement of results.</li> <li>• All consumables required for provision of this module.</li> <li>• All assessment instruments to cover the related topics.</li> <li>• Tools and standards for internal assessment</li> </ul>
<b>CONSUMABLES</b>	All consumables required for provision of this module

<b>ASSESSMENT CENTRE</b>
Not applicable

### Human Resource Requirements:

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	Facilitator must have a minimum NQF Level 5 facilitator competencies (Facilitation of learning in occupational contexts, or equivalent) and 5-year experience in dangerous goods.  Assessment Official (SME) must have a minimum NQF Level 5 assessment competencies as an Assessment Practitioner (Assessment principles and practices and/or Plan and conduct the assessment of learner competencies, or equivalent) and 5-year experience in dangerous goods.
<b>FACILITATOR/LEARNER RATIO</b>	Facilitator/learner ratio 1: maximum 20

<b>ASSESSMENT CENTRE</b>
Not applicable

### Legal Requirements:

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<ul style="list-style-type: none"><li>• CIPC registered entity</li><li>• SARS Tax compliance pin</li><li>• Compliant and current health and safety audit report</li><li>• Relevant labour legislation visible in facility or on platform (as required by current legislation)</li><li>• POPI policy</li><li>• Approved by Minister of Transport in terms of National Road Traffic Act No. 93 of 1996 for dangerous goods drivers of all classes of vehicles</li></ul>
<b>FACILITATOR/LEARNER RATIO</b>	N/A

<b>ASSESSMENT CENTRE</b>
Not applicable

### Additional Requirements:

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>
None

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ASSESSMENT CENTRE
None

**3.2.3 Exemptions**

N/A

### 3.3 Knowledge Module (KM) – 03: 900282-000-00-KM-03, Dangerous Goods Responsibilities and Duties, NQF Level 3, Credits 1

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-KM-03	Dangerous Goods Responsibilities and Duties	3	1	No restrictions. Face-to-face, or online, or blended

#### 3.3.1 Module Details:

(a) Purpose of Knowledge Module:

The focus of the learning in this knowledge module is to provide an overview and build an understanding of classification in working with dangerous goods and meeting national and international legislative requirements.

(b) List of Knowledge Topics:

TOPIC CODE	TOPIC TITLE	% OF TIME TO BE SPENT
KM-01-KT01	Suitability and compliance of vehicle	10
KM-01-KT02	Compatibility, separation and segregation	10
KM-01-KT03	Dangerous goods loading/stowage plans	10
KM-01-KT04	Carrying dangerous goods	10
KM-01-KT05	Health and safety (Safety Data Sheet)	10
KM-01-KT06	Load/unload cargo transport units	10
KM-01-KT07	Transport documents for dangerous goods	10
KM-01-KT08	Handle dangerous goods in transport	10
KM-01-KT09	Security requirements	10
KM-01-KT10	Risk Assessments and Emergency Response and Incident reports	10

(c) Detailing each topic listed above into topic elements:

KM-03-KT01 SUITABILITY AND COMPLIANCE OF VEHICLE 10%
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TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0101	Suitability, DG Registration and cleanliness of vehicle	40
KT0102	Registration as DG operator	30
KT0103	CTU packing COP for packed product	30

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0101	Describe vehicle inspection process	40
IAC0102	Describe driver document to be verified	30
IAC0103	Explain the CTU packing COP for packed product	30

KM-03-KT02 COMPATIBILITY, SEPARATION AND SEGREGATION 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0201	9 classes of Dangerous Goods	40
KT0202	Principles of compatibility, segregation and separation on a vehicle	30
KT0203	Emergency response equipment	30

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0201	Describe 9 classes of DG	25
IAC0202	Describe compatibility, segregation and separation principles	25
IAC0203	Describe the required PPE, and Emergency equipment to be carried.	25
IAC0204	Describe the use of the TRECARD	25

KM-03-KT03 DANGEROUS GOODS LOADING/STOWAGE PLAN 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0301	Axle weight and vehicle size	10
KT0302	Cargo securement and minimising risks of spillage	10
KT0303	CTU Packing Code	20
KT0304	Earthing straps	20
KT0305	Insurance requirements and validity	20
KT0306	Packaging requirements and requirements that no product shall adhere to the outside of the packaging	20

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0301	Describe permissible loading weights and axle weight	25
IAC0302	Describe different types of load securement	25
IAC0303	Describe checks to be done on packaging before loading and during loading operations	25
IAC0304	Describe en route inspection of loads	25

KM-03-KT04 CARRYING DANGEROUS GOODS...10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0401	Route plan	50
KT0402	Route procedures	25
KT0403	Procedures for emergency stops and rest periods	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0401	Describe legal driver hours and resting periods	25
IAC0402	Describe route planning	25
IAC0403	Explain adherence to a route plan (not deviating unless instructed for emergency reasons, make use of pre-planned stop (rest periods), checking on load during trip, check vehicle for defects during trip,)	25
IAC0404	Describe process for emergency stops and emergency situations	25

KM-03-KT05 HEALTH AND SAFETY (SAFETY DATA SHEET) 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0501	Hazards of the load being carried and PPE	10
KT0502	First aid	10
KT0503	Use of equipment (e.g., fire extinguisher)	20
KT0504	Incident and incident reporting procedures	20
KT0505	TRECARD and DGD	20
KT0506	Safety Data Sheet	20

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0501	Explain the content of an SDS	25
IAC0502	Explain the content of the TRECARD	25
IAC0503	Explain the PPE requirements	25
IAC0504	Explain Emergency response procedures	25

KM-03-KT06 LOAD/UNLOAD CARGO TRANSPORT UNITS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

KT0601	Difference in packed products and bulk products	40
KT0602	Vehicle inspection pre, and post loading	30
KT0603	Load securement	30

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0601	Describe pre, post loading and load securement inspections for packed cargo and bulk tanker cargo	40
IAC0602	Describe the en route procedures for load securement checks	30
IAC0603	Describe the vehicle inspection process	30

KM-03-KT07 TRANSPORT DOCUMENTS FOR DANGEROUS GOODS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0701	TRECARD	50
KT0702	Dangerous Goods Declaration	50

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0701	Explain the TRECARD content	40
IAC0702	Explain the DGD content	30
IAC0703	Describe the requirements / responsibilities of the driver in terms of the DGD	30

KM-03-KT08 HANDLE DANGEROUS GOODS IN TRANSPORT 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT

KT0801	Load securement checks during journey	50
KT0802	Emergency response in case of spillage	50

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0801	Describe load securement checks en route, frequency and process	50
IAC0802	Describe emergency response procedures	50

KM-03-KT09 SECURITY REQUIREMENTS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT0901	Load securement en route	25
KT0902	Passenger policies	25
KT0903	Route plans and route risk assessments	25
KT0904	Hijacking Route risk assessments, safe stops / hot spots procedures	25

Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC0901	Describe load securement checks en route, frequency and process	25
IAC0902	Describe emergency response procedures	25
IAC0903	Explain hijacking risks	25
IAC0904	Explain the reason that passengers are not allowed to be carried when transporting DG	25

KM-03-KT10 RISK ASSESSMENTS AND EMERGENCY RESPONSE AND INCIDENT REPORTS 10%		
TOPIC ELEMENT CODE	TOPIC ELEMENT TITLE	% OF TIME TO BE SPENT
KT1001	Route risk assessments and Route plans	25
KT1002	Emergency response	25
KT1003	TRECARD	25
KT1004	Incident reporting	25

#### Internal Assessment Criteria (IAC) and Weight

IAC CODE	IAC DESCRIPTION	% OF TIME TO BE SPENT
IAC1001	Describe route planning	25
IAC1002	Describe emergency procedures	25
IAC1003	Describe the content of the TRECARD	25
IAC1004	Describe incident reporting process	25

### 3.3.2 Criteria for accreditation

Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

#### Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
<b>EQUIPMENT &amp; TOOLS</b>	<ul style="list-style-type: none"> <li>Physical training facilities (or if using a hybrid or e-learning model – software or internet platform) conducive to hosting the number of learners comfortably and safely for the duration of this module.</li> <li>Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, sheltered from the elements etc.) if relevant.</li> <li>All learning materials, lesson plans, workbooks, assessment guides to cover the related topics.</li> <li>Tools and standards for internal assessment</li> </ul>

	<ul style="list-style-type: none"> <li>Record keeping systems to capture learner data and issue a statement of results.</li> <li>All consumables required for provision of this module.</li> <li>All assessment instruments to cover the related topics.</li> <li>Tools and standards for internal assessment</li> </ul>
<b>CONSUMABLES</b>	All consumables required for provision of this module

<b>ASSESSMENT CENTRE</b>	
Not applicable	

**Human Resource Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<p>Facilitator must have a minimum NQF Level 5 facilitator competencies (Facilitation of learning in occupational contexts, or equivalent) and 5-year experience in dangerous goods.</p> <p>Assessment Official (SME) must have a minimum NQF Level 5 assessment competencies as an Assessment Practitioner (Assessment principles and practices and/or Plan and conduct the assessment of learner competencies, or equivalent) and 5-year experience in dangerous goods.</p>
<b>FACILITATOR/LEARNER RATIO</b>	Facilitator/learner ratio 1: maximum 20

<b>ASSESSMENT CENTRE</b>	
Not applicable	

**Legal Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<ul style="list-style-type: none"> <li>CIPC registered entity</li> <li>SARS Tax compliance pin</li> <li>Compliant and current health and safety audit report</li> <li>Relevant labour legislation visible in facility or on platform (as required by current legislation)</li> <li>POPI policy</li> </ul>

	<ul style="list-style-type: none"> <li>Approved by Minister of Transport in terms of National Road Traffic Act No. 93 of 1996 for dangerous goods drivers of all classes of vehicles</li> </ul>
<b>FACILITATOR/LEARNER RATIO</b>	N/A

<b>ASSESSMENT CENTRE</b>
Not applicable

**Additional Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>
None

<b>ASSESSMENT CENTRE</b>
None

**3.3.3 Exemptions**

N/A

#### 4 Practical Skill Module (PM) Specifications:

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-PM-01	Complete documents for road transport of dangerous goods	3	1	Face-to-face
900282-000-00-PM-02	Check and implement compliance checks on documentation in terms of legislative requirements	3	1	Face-to-face
900282-000-00-PM-03	Conduct pre-, in-transit, and post-trip inspections and general safety compliance	3	1	Face-to-face
900282-000-00-PM-04	Handle, load, and offload dangerous goods	3	2	Face-to-face

#### 4.1 Practical Module (PM) – 01: 900282-000-00-PM-01, Complete documents for road transport of dangerous goods, NQF Level 3, Credits 1

##### Practical Module (PM) – 01

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-PM-01	Complete documents for road transport of dangerous goods	3	1	Face-to-face

##### 4.1.1. Module Details

###### (4) Purpose of the Practical Skills Module:

The focus of the learning in this module is to provide the learner an opportunity to practice how to complete required documentation, including labelling and placarding of dangerous goods within a simulated or working environment.

###### (b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-01-PS01	Confirm labelling and marking correspond with packaging
PM-01-PS02	Check that the placarding corresponds with DGD
PM-01-PS03	Check the correct designated space, position and legally required documents to be used

###### Scope of each Practical Skill Activity:

PM-01-PS01... CONFIRM LABELLING AND MARKING CORRESPOND WITH PACKAGING ...	
<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:</b>	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Read safety data sheet
PA0102	Confirm the load meets the requirements of SDS

###### Applied Knowledge that underpins the Practical Skill Activity

<b>APPLIED KNOWLEDGE CODE</b>	<b>APPLIED KNOWLEDGE</b>
AK0101	Apply safety data sheet
AK0102	Hazards per specific cargo
AK0103	PPE and emergency response equipment usage
AK0104	Standard operating procedures
AK0105	Packaging requirements

### Internal Assessment Criteria (IAC) for the Practical Skill Activity

<b>IAC CODE</b>	<b>IAC DESCRIPTION</b>
IAC0101	Data sheet is read and interpreted to determine that the packaging and the labelling correspond with the hazard identified in the SDS
IAC0102	Data sheet is read and interpreted to determine that the packaging and the labelling correspond with UN number

<b>PM-01-PS02... CHECK THAT THE PLACARDING CORRESPONDS WITH DGD ...</b>	
<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE</b>	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, learner must be able to:	
<b>PRACTICAL SKILL ACTIVITY ELEMENT CODES</b>	<b>PRACTICAL SKILL ACTIVITY ELEMENTS</b>
PA0201	Read safety data sheet for placarding requirements
PA0202	Confirm the load meets the requirements of DGD

### Applied Knowledge that underpins the Practical Skill

<b>APPLIED KNOWLEDGE CODE</b>	<b>APPLIED KNOWLEDGE</b>
AK0201	Apply safety data sheet
AK0202	Hazards per specific cargo
AK0203	PPE and emergency response equipment usage
AK0204	Standard operating procedures
AK0205	Packaging requirements

### Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Data sheet is read and interpreted to determine that the placarding corresponds with the hazard classes being loaded
IAC0202	Data sheet is read and interpreted to determine that the placarding reflects the correct UN number
IAC0203	The instructions of the TRECARD are interpreted to correspond with the cargo being loaded
IAC0204	All placarding requirements are checked against the legal requirements

PM-01-PS03... CHECK THE CORRECT DESIGNATED SPACE, POSITION AND LEGALLY REQUIRED DOCUMENTS TO BE USED ...	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0301	Determine the document holder is fixed in the designated space
PA0302	Check colour, markings and position meet legal requirements
PA0303	Check availability of required documents

### Applied Knowledge that underpins the Practical Skill

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	Standard operating procedures
AK0302	Requirements of designated space, colour, markings and position and required documents

### Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	The position of the designated space is indicated in terms of the requirements in accordance with the legislation

IAC0302	The colour, markings and position are indicated in terms of the requirements in accordance with the legislation
IAC0303	All the available and required documents in the designated space are identified in terms of the specific load, in accordance with the legislation

#### 4.1.2. Criteria for accreditation

##### *Physical Requirements:*

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>EQUIPMENT &amp; TOOLS</b>	<ul style="list-style-type: none"> <li>• Access to a dangerous goods environment, a simulated environment</li> <li>• Physical training facilities conducive to hosting the number of learners comfortably and safely for the duration of this module</li> <li>• Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, shelter from the elements etc.), if relevant</li> <li>• Record keeping systems to capture learner data and issue a statement of results, Document Control system and policies and procedures for operations</li> <li>• The provider must have practical guidebooks with clear instructions on activities (including templates and where relevant references to material or additional information required to cover aspects of the applied knowledge)</li> <li>• The provider must have the following tools and equipment: <ul style="list-style-type: none"> <li>○ Equipment (Long Term Consumables) <ul style="list-style-type: none"> <li>▪ Questionnaire</li> <li>▪ Checklists</li> <li>▪ Photos</li> <li>▪ Simulation/demonstration/videos</li> <li>▪ Placards, orange book, SANS Codes, Designated space, TRECARD</li> <li>▪ DGD, SDS, examples of hazard diamonds, examples of CTU, spill kit,</li> </ul> </li> <li>○ Personal Protective Equipment as per TRECARD</li> </ul> </li> </ul>

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

	<ul style="list-style-type: none"> <li>○ Safety <ul style="list-style-type: none"> <li>▪ Signage of all the classes of danger</li> <li>▪ Compatibility chart for loading a vehicle and for warehousing and storage</li> <li>▪ Safety Signage (Emergency and Warning Signs)</li> <li>▪ Evacuation Plan</li> <li>▪ Statutory Appointments (OSH Act and relevant Regulations)</li> <li>▪ Statutory Inspections and Testing (Equipment)</li> <li>▪ First aid kit</li> <li>▪ Fire extinguisher (checking expiring date)</li> </ul> </li> </ul>
<b>CONSUMABLES</b>	<p>The following Consumables:</p> <ul style="list-style-type: none"> <li>○ Pens, paper, training stationery, charts, calculators</li> </ul> <p>The provider must have logbooks to capture learner progress against the practical activities.</p> <p>The provider must have the following as stated in the given statements:</p> <ul style="list-style-type: none"> <li>○ A scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists</li> </ul>

**Human Resource Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<p>Facilitator must have a minimum NQF Level 5 facilitator competencies (Facilitation of learning in occupational contexts, or equivalent) and 5-year experience in dangerous goods.</p> <p>Assessment Official (SME) must have a minimum NQF Level 5 assessment competencies as an Assessment Practitioner (Assessment principles and practices and/or Plan and conduct the assessment of learner competencies, or equivalent) and 5-year experience in dangerous goods.</p>
<b>FACILITATOR/LEARNER RATIO</b>	Facilitator/learner ratio 1: maximum 20

<b>ASSESSMENT CENTRE</b>
Not applicable

**Legal Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<ul style="list-style-type: none"> <li>• CIPC registered entity</li> <li>• SARS Tax compliance pin</li> <li>• Compliant and current health and safety audit report</li> <li>• Relevant labour legislation visible in facility or on platform (as required by current legislation)</li> <li>• POPI policy</li> <li>• Approved by Minister of Transport in terms of National Road Traffic Act No. 93 of 1996 for dangerous goods drivers of all classes of vehicles</li> </ul>
<b>FACILITATOR/LEARNER RATIO</b>	N/A

<b>ASSESSMENT CENTRE</b>
Not applicable

**Additional Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>
None

<b>ASSESSMENT CENTRE</b>
None

**4.1.3 Exemptions**

None

## 4.2 Practical Module (PM) - 02: 900282-000-00-PM-02, Check and implement compliance checks on documentation in terms of legislative requirements, NQF Level 3, Credits 1

### Practical Module (PM) - 02

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-PM-02	Check and implement compliance checks on documentation in terms of legislative requirements	3	1	Face-to-face

#### 4.2.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is to provide the learner an opportunity to practice completing compliance checks on dangerous goods packaging, labelling and placarding and reporting non-compliances within a simulated or working environment.

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-02-PS01	Conduct compliance checks on documentation, dangerous goods declaration, packaging, labelling and placarding
PM-02-PS02	Record and report non-compliance
PM-02-PS03	Check compliance of packaging of dangerous goods for specific transport mode

(c) Scope of each Practical Skill Activity:

PM-02-PS01... CONDUCT COMPLIANCE CHECKS ON DOCUMENTATION, DANGEROUS GOODS DECLARATION, PACKAGING, LABELLING AND PLACARDING ...	
<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:</b>	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Identify correct UN certified packaging, labelling and placarding

PA0102	Check the compatibility of different hazards classes for mixed or multi-load freight prior to loading
PA0103	Confirm the correct and validity of the documents

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	UN certification marks for packaging
AK0102	UN number and Proper Shipping Names
AK0103	Various documents e.g. bills of lading, way bills, consignment notes or cargo manifests, CMR note
AK0104	Dangerous goods legislation, Protocols and Conventions
AK0105	Packaging requirements
AK0106	Principles and processes of transporting dangerous goods
AK0107	Classification, marking and labelling systems.

Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	The correct packaging, labelling and placarding are identified in terms of the UN number and hazard class
IAC0102	The compatibility for mixed or multi-load is checked in accordance with the compatibility chart for transport
IAC0103	Documents are checked against the DGD, the date is valid, and the placarding is correct
IAC0104	Compatibility is maintained during multi-load drop-offs

PM-02-PS02... RECORD AND REPORT NON-COMPLIANCE ...
<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE</b>
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:

<b>PRACTICAL SKILL ACTIVITY ELEMENT CODES</b>	<b>PRACTICAL SKILL ACTIVITY ELEMENTS</b>
PA0201	Complete reporting template
PA0202	Use relevant methods/technologies to communicate non-compliance

(d) Applied Knowledge that underpins the Practical Skill

<b>APPLIED KNOWLEDGE CODE</b>	<b>APPLIED KNOWLEDGE</b>
AK0201	UN certification marks for packaging
AK0202	UN number and Proper Shipping Names
AK0203	Various documents e.g. bill of lading, way bills, consignment notes or cargo manifests, CMR note
AK0204	Dangerous goods legislation, Protocols and Conventions
AK0205	Packaging requirements
AK0206	Principles and processes of transporting dangerous goods
AK0207	Classification, marking and labelling systems.

Internal Assessment Criteria (IAC)

<b>IAC CODE</b>	<b>IAC DESCRIPTION</b>
IAC0201	Reporting template is completed as per standard operating procedures
IAC0202	Non-compliance is reported using available methods to communicate relevant information

PM-02-PS03 ... CHECK COMPLIANCE OF PACKAGING OF DANGEROUS GOODS FOR SPECIFIC TRANSPORT MODE	
<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE</b>	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:...	
<b>PRACTICAL SKILL ACTIVITY ELEMENT CODES</b>	<b>PRACTICAL SKILL ACTIVITY ELEMENTS</b>

PA0301	Identify non-compliant packaging
PA0302	Complete the pre and post loading checklist
PA0303	Identify compatibility issues

#### Applied Knowledge that underpins the Practical Skill

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	UN certification marks for packaging
AK0302	UN number and Proper Shipping Names
AK0303	Various documents e.g., bills of lading, waybills, consignment notes or cargo manifests, CMR note
AK0304	Dangerous goods legislation, Protocols and Conventions
AK0305	Packaging requirements
AK0306	Principles and processes of transporting dangerous goods
AK0307	Classification, marking and labelling systems

#### Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	Non-compliant packaging is identified in terms of the class and legislative requirements
IAC0302	The pre and post loading checklist are completed in accordance with standard operating procedures
IAC0303	Compatibility issues are identified in terms of separation and segregation requirements for dangerous goods

#### 4.2.2. Criteria for accreditation

Requirements, against which Skills Development Providers (SDP) and Assessment Centres, will be accredited, as listed below.

##### Physical Requirements:

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none"> <li>Access to a dangerous goods environment, a simulated environment</li> </ul>

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

- Physical training facilities conducive to hosting the number of learners comfortably and safely for the duration of this module
- Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, shelter from the elements etc.), if relevant
- Record keeping systems to capture learner data and issue a statement of results, Document Control system and policies and procedures for operations
- The provider must have practical guidebooks with clear instructions on activities (including templates and where relevant references to material or additional information required to cover aspects of the applied knowledge)
- The provider must have the following tools and equipment:
  - Equipment (Long Term Consumables)
    - Questionnaire
    - Checklists
    - Photos
    - Simulation/demonstration/videos
    - Placards, orange book, SANS Codes, Designated space, TRECARD
    - DGD, SDS, examples of hazard diamonds, examples of CTU, spill kit,
  - Personal Protective Equipment as per TRECARD
  - Safety
    - Signage of all the classes of danger
    - Compatibility chart for loading a vehicle and for warehousing and storage
    - Safety Signage (Emergency and Warning Signs)
    - Evacuation Plan
    - Statutory Appointments (OSH Act and relevant Regulations)
    - Statutory Inspections and Testing (Equipment)
    - First aid kit
    - Fire extinguisher (checking expiring date)

<b>CONSUMABLES</b>	<p>The following Consumables:</p> <ul style="list-style-type: none"> <li>○ Pens, paper, training stationery, charts, calculators</li> </ul> <p>The provider must have logbooks to capture learner progress against the practical activities</p> <p>The provider must have the following as stated in the given statements:</p> <ul style="list-style-type: none"> <li>○ Scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates</li> </ul>
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<b>ASSESSMENT CENTRE</b>
Not applicable

**Human Resource Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<p>Facilitator must have a minimum NQF Level 5 facilitator competencies (Facilitation of learning in occupational contexts, or equivalent) and 5-year experience in dangerous goods.</p> <p>Assessment Official (SME) must have a minimum NQF Level 5 assessment competencies as an Assessment Practitioner (Assessment principles and practices and/or Plan and conduct the assessment of learner competencies, or equivalent) and 5-year experience in dangerous goods.</p>
<b>FACILITATOR/LEARNER RATIO</b>	Facilitator/learner ratio 1: maximum 20

<b>ASSESSMENT CENTRE</b>
Not applicable

**Legal Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>
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<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<ul style="list-style-type: none"> <li>• CIPC registered entity</li> <li>• SARS Tax compliance pin</li> <li>• Compliant and current health and safety audit report</li> <li>• Relevant labour legislation visible in facility or on platform (as required by current legislation)</li> <li>• POPI policy</li> <li>• Approved by Minister of Transport in terms of National Road Traffic Act No. 93 of 1996 for dangerous goods drivers of all classes of vehicles</li> </ul>
<b>FACILITATOR/LEARNER RATIO</b>	N/A

<b>ASSESSMENT CENTRE</b>
Not applicable

**Additional Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>
None

<b>ASSESSMENT CENTRE</b>
None

**4.2.3 Exemptions**

None

### 4.3 Practical Module (PM) - 03: 900282-000-00-PM-03, Conduct pre-, in-transit, and post-trip inspections and general safety compliance, NQF Level 3, Credits 1

#### Practical Module (PM) - 03

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-PM-03	Conduct pre-, in-transit, and post-trip inspections and general safety compliance	3	1	Face-to-face

#### 4.3.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is to provide the learner an opportunity to practice how to conduct pre-, in-transit, and post-trip inspections and general safety compliance within a simulated or working environment.

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-03-PS01	Conduct pre-, in-transit, and post-trip inspections
PM-03-PS02	Conduct safety compliance checks and verify vehicle roadworthiness and load compliance
PM-03-PS03	Keep vehicle clean and in good hygienic condition

(c) Scope of each Practical Skill Activity:

PM-01-PS01... CONDUCT PRE-, IN-TRANSIT, AND POST-TRIP INSPECTIONS ...	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Inspect vehicle before, during and after a trip and complete vehicle checklist
PA0102	Prepare and submit vehicle inspection fault report

Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Standard operating procedures
AK0102	Requirements of designated space, colour, markings and position and required documents

Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	Pre-, in-transit, and post-trip vehicle inspections are carried out and checklist correctly completed in accordance with standard procedures
IAC0102	Any non-compliance is reported in accordance with standard operating procedures

PM-01-PS02... CONDUCT SAFETY COMPLIANCE CHECKS AND VERIFY VEHICLE ROADWORTHINESS AND LOAD COMPLIANCE ...	
<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE</b>	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:...	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0201	Verify vehicle roadworthiness
PA0202	Verify load compliance

(d) Applied Knowledge that underpins the Practical Skill

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0201	Standard operating procedures
AK0202	Requirements of designated space, colour, markings and position and required documents

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0201	Roadworthiness of vehicle and load compliance verified in accordance with relevant standards and procedures

PM-01-PS03... KEEP VEHICLE CLEAN AND IN GOOD HYGIENIC CONDITION ...	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0301	Sanitise and clean the interior of the vehicle
PA0302	Maintain the placarding on the exterior is clear, visible and legible and interior of vehicle in clean condition

Applied Knowledge that underpins the Practical Skill

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0301	Standard operating procedures
AK0302	Requirements of designated space, colour, markings and position and required documents

Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	The interior of the vehicle is sanitised and kept clean focusing on high-contact surfaces to maintain a hygienic environment
IAC0302	The placarding on the exterior is kept clear, visible and legible and the interior of vehicle are kept clean to prevent any accumulation of residues or contaminants that could pose a risk when transporting dangerous goods

#### 4.3.2. Criteria for accreditation

**Physical Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>EQUIPMENT &amp; TOOLS</b>	<ul style="list-style-type: none"><li>• Access to a dangerous goods environment, a simulated environment</li><li>• Physical training facilities conducive to hosting the number of learners comfortably and safely for the duration of this module</li><li>• Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, shelter from the elements etc.), if relevant</li><li>• Record keeping systems to capture learner data and issue a statement of results, Document Control system and policies and procedures for operations</li><li>• The provider must have practical guidebooks with clear instructions on activities (including templates and where relevant references to material or additional information required to cover aspects of the applied knowledge)</li><li>• The provider must have the following tools and equipment:<ul style="list-style-type: none"><li>○ Equipment (Long Term Consumables)<ul style="list-style-type: none"><li>▪ Questionnaire</li><li>▪ Checklists</li><li>▪ Photos</li><li>▪ Simulation/demonstration/videos</li><li>▪ Placards, orange book, SANS Codes, Designated space, TRECARD</li><li>▪ DGD, SDS, examples of hazard diamonds, examples of CTU, spill kit,</li></ul></li><li>○ Personal Protective Equipment as per TRECARD</li><li>○ Safety<ul style="list-style-type: none"><li>▪ Signage of all the classes of danger</li><li>▪ Compatibility chart for loading a vehicle and for warehousing and storage</li><li>▪ Safety Signage (Emergency and Warning Signs)</li><li>▪ Evacuation Plan</li></ul></li></ul></li></ul>

	<ul style="list-style-type: none"> <li>▪ Statutory Appointments (OSH Act and relevant Regulations)</li> <li>▪ Statutory Inspections and Testing (Equipment)</li> <li>▪ First aid kit</li> <li>▪ Fire extinguisher (checking expiring date)</li> </ul>
<b>CONSUMABLES</b>	<p>The following Consumables:</p> <ul style="list-style-type: none"> <li>○ Pens, paper, training stationery, charts, calculators</li> </ul> <p>The provider must have logbooks to capture learner progress against the practical activities</p> <p>The provider must have the following as stated in the given statements:</p> <ul style="list-style-type: none"> <li>○ Scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates</li> </ul>

<b>ASSESSMENT CENTRE</b>
Not applicable

**Human Resource Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<p>Facilitator must have a minimum NQF Level 5 facilitator competencies (Facilitation of learning in occupational contexts, or equivalent) and 5-year experience in dangerous goods.</p> <p>Assessment Official (SME) must have a minimum NQF Level 5 assessment competencies as an Assessment Practitioner (Assessment principles and practices and/or Plan and conduct the assessment of learner competencies, or equivalent) and 5-year experience in dangerous goods.</p>
<b>FACILITATOR/LEARNER RATIO</b>	Facilitator/learner ratio 1: maximum 20

<b>ASSESSMENT CENTRE</b>
Not applicable

**Legal Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<ul style="list-style-type: none"> <li>• CIPC registered entity</li> <li>• SARS Tax compliance pin</li> <li>• Compliant and current health and safety audit report</li> <li>• Relevant labour legislation visible in facility or on platform (as required by current legislation)</li> <li>• POPI policy</li> <li>• Approved by Minister of Transport in terms of National Road Traffic Act No. 93 of 1996 for dangerous goods drivers of all classes of vehicles</li> </ul>
<b>FACILITATOR/LEARNER RATIO</b>	N/A

<b>ASSESSMENT CENTRE</b>
Not applicable

**Additional Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>
None

<b>ASSESSMENT CENTRE</b>
None

**4.3.3 Exemptions**

None

#### 4.4 Practical Module (PM) - 04: 900282-000-00-PM-04, Complete documents for road transport of dangerous goods, NQF Level 3, Credits 2

##### Practical Module (PM) - 04

MODULE CODE	MODULE TITLE	NQF LEVEL	CREDITS	MODE OF DELIVERY
900282-000-00-PM-01	Complete documents for road transport of dangerous goods	3	2	Face-to-face

##### 4.4.1. Module Details

(a) Purpose of the Practical Skills Module:

The focus of the learning in this module is to provide the learner an opportunity to practice handle, load, and offload dangerous goods within a simulated or working environment.

(b) List of Practical Skill Activities:

PRACTICAL SKILL CODE	ACTIVITY TITLE
PM-04-PS01	Execute transport plans, following established routes and safety protocols
PM-04-PS02	Load and offload dangerous goods
PM-04-PS03	Execute en route load securement checks
PM-04-PS04	Implement emergency/incident response or emergency plans

(c) Scope of each Practical Skill Activity:

PM-04-PS01... EXECUTE TRANSPORT PLANS, FOLLOWING ESTABLISHED ROUTES AND SAFETY PROTOCOLS ...	
<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE:</b>	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0101	Perform a detailed inspection of the vehicle and load
PA0102	Map out and follow the assigned routes for transporting dangerous goods
PA0103	Monitor and check the conditions of dangerous goods
PA0104	Complete and document transport logs

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

### Applied Knowledge that underpins the Practical Skill Activity

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0101	Dangerous goods legislation, Protocols and Conventions
AK0102	Packaging requirements
AK0103	Principles and processes of transporting dangerous goods
AK0104	Classification, marking and labelling systems
AK0105	Documentation required
AK0106	Procedures to use emergency response guides
AK0107	Methods and techniques of protective actions.
AK0108	Environmental and climatic influences on hazards
AK0109	Isolation and evacuation processes and procedures
AK0110	Methods and techniques of using communication lines
AK0111	Role of the parties in the transport chain
AK0112	Training requirements with regards to dangerous goods

### Internal Assessment Criteria (IAC) for the Practical Skill Activity

IAC CODE	IAC DESCRIPTION
IAC0101	A detailed inspection is performed according to the latest safety protocols, ensuring compliance with hazardous materials
IAC0102	The assigned routes for transporting dangerous goods are mapped out and followed to avoid roadblocks, high-risk areas, and to maintain adherence to scheduled timelines
IAC0103	the conditions of dangerous goods are monitored and checked during transit, using appropriate safety equipment and techniques to handle emergency situations or breaches in protocol
IAC0104	Transport documents are completed detailing route information, goods conditions, and any incidents, in line with the road transport safety requirements for hazardous materials

PM-04-PS02... LOAD AND OFFLOAD DANGEROUS GOODS ...

<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE</b>	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:...	
<b>PRACTICAL SKILL ACTIVITY ELEMENT CODES</b>	<b>PRACTICAL SKILL ACTIVITY ELEMENTS</b>
PA0201	Load dangerous goods onto transport vehicles
PA0202	Conduct thorough pre-offloading checks
PA0203	Inspect and document the condition of dangerous goods post-offloading

(d) Applied Knowledge that underpins the Practical Skill

<b>APPLIED KNOWLEDGE CODE</b>	<b>APPLIED KNOWLEDGE</b>
AK0201	Dangerous goods legislation, Protocols and Conventions
AK0202	Packaging requirements
AK0203	Principles and processes of transporting dangerous goods
AK0204	Classification, marking and labelling systems
AK0205	Documentation required
AK0206	Procedures to use emergency response guides
AK0207	Methods and techniques of protective actions.
AK0208	Environmental and climatic influences on hazards
AK0209	Isolation and evacuation processes and procedures
AK0210	Methods and techniques of using communication lines
AK0211	Role of the parties in the transport chain
AK0212	Training requirements with regards to dangerous goods

Internal Assessment Criteria (IAC)

<b>IAC CODE</b>	<b>IAC DESCRIPTION</b>
IAC0201	Dangerous goods are loaded onto transport vehicles, ensuring that each item is properly classified, packaged, and secured according to the latest dangerous goods, marking and labelling legislation

IAC0202	Pre-offloading checks are conducted to verify that all safety protocols are in place, the goods are intact, and the offloading area is secure and equipped for handling dangerous goods
IAC0203	The condition of dangerous goods is inspected and documented post-offloading, ensuring that no contamination or damage occurred during transport, and any discrepancies or incidents is reported in accordance with safety guidelines

PM-04-PS03... EXECUTE EN ROUTE LOAD SECUREMENT CHECKS ...	
<b>PRACTICAL SKILL ACTIVITY SCOPE OUTLINE</b>	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:...	
<b>PRACTICAL SKILL ACTIVITY ELEMENT CODES</b>	<b>PRACTICAL SKILL ACTIVITY ELEMENTS</b>
PA0301	Conduct regular en route inspections of the securement of dangerous goods
PA0302	Adjust and reinforce load securement devices
PA0303	Assess the condition of dangerous goods during stops
PA0304	Record the outcomes of each en route securement check

#### Applied Knowledge that underpins the Practical Skill

<b>APPLIED KNOWLEDGE CODE</b>	<b>APPLIED KNOWLEDGE</b>
AK0301	Dangerous goods legislation, Protocols and Conventions
AK0302	Packaging requirements
AK0303	Principles and processes of transporting dangerous goods
AK0304	Classification, marking and labelling systems
AK0305	Documentation required
AK0306	Procedures to use emergency response guides
AK0307	Methods and techniques of protective actions.
AK0308	Environmental and climatic influences on hazards
AK0309	Isolation and evacuation processes and procedures

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

AK0310	Methods and techniques of using communication lines
AK0311	Role of the parties in the transport chain
AK0312	Training requirements with regards to dangerous goods

#### Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0301	Regular en route inspections are conducted for the securement of dangerous goods, using the correct safety gear and following established checklists to ensure load stability and compliance with transport regulations
IAC0302	load securement devices are adjusted and reinforced during transport, documenting any changes made to the securement setup
IAC0303	The condition of dangerous goods are checked during stops, making sure that no shifting has occurred and that the load remains in its designated positions, properly separated and stabilised
IAC0304	The outcomes of each en route securement check is recorded, noting the time, location, and any actions taken to rectify potential hazards for compliance and safety assurance

PM-04-PS04... IMPLEMENT EMERGENCY/INCIDENT RESPONSE OR EMERGENCY PLANS	
PRACTICAL SKILL ACTIVITY SCOPE OUTLINE	
Given a scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates learner must be able to:...	
PRACTICAL SKILL ACTIVITY ELEMENT CODES	PRACTICAL SKILL ACTIVITY ELEMENTS
PA0401	Implement health and safety plans in compliance with regulations
PA0402	Use safety equipment, including personal protective gear, as instructed
PA0403	Implement emergency response plans specific to dangerous goods transported.
PA0404	Implement immediate responses during accidents, leaks, or other emergencies

#### Applied Knowledge that underpins the Practical Skill

SP Doc Proficient Road Transport Dangerous Goods Driver 3 8

APPLIED KNOWLEDGE CODE	APPLIED KNOWLEDGE
AK0401	Dangerous goods legislation, Protocols and Conventions
AK0402	Packaging requirements
AK0403	Principles and processes of transporting dangerous goods
AK0404	Classification, marking and labelling systems
AK0405	Documentation required
AK0406	Procedures to use emergency response guides
AK0407	Methods and techniques of protective actions.
AK0408	Environmental and climatic influences on hazards
AK0409	Isolation and evacuation processes and procedures
AK0410	Methods and techniques of using communication lines
AK0411	Role of the parties in the transport chain
AK0412	Training requirements with regards to dangerous goods

#### Internal Assessment Criteria (IAC)

IAC CODE	IAC DESCRIPTION
IAC0401	Transport trips are checked against all health and safety requirements
IAC0402	All safety and PPE are used and kept in operational order
IAC0403	All protocols are followed in the event of an emergency
IAC0404	The immediate responses implemented during incidents involving accidents, leaks, or other emergencies are checked to determine areas for improvements in future emergency handling

#### 4.4.2. Criteria for accreditation

##### *Physical Requirements:*

SKILLS DEVELOPMENT PROVIDER (SDP)	
EQUIPMENT & TOOLS	<ul style="list-style-type: none"> <li>Access to a dangerous goods environment, a simulated environment</li> </ul>

- Physical training facilities conducive to hosting the number of learners comfortably and safely for the duration of this module
- Facilities that meet the minimum requirements for the comfort of learners (ablutions, hand washing facilities, shelter from the elements etc.), if relevant
- Record keeping systems to capture learner data and issue a statement of results, Document Control system and policies and procedures for operations
- The provider must have practical guidebooks with clear instructions on activities (including templates and where relevant references to material or additional information required to cover aspects of the applied knowledge)
- The provider must have the following tools and equipment:
  - Equipment (Long Term Consumables)
    - Questionnaire
    - Checklists
    - Photos
    - Simulation/demonstration/videos
    - Placards, orange book, SANS Codes, Designated space, TRECARD
    - DGD, SDS, examples of hazard diamonds, examples of CTU, spill kit,
  - Personal Protective Equipment as per TRECARD
  - Safety
    - Signage of all the classes of danger
    - Compatibility chart for loading a vehicle and for warehousing and storage
    - Safety Signage (Emergency and Warning Signs)
    - Evacuation Plan
    - Statutory Appointments (OSH Act and relevant Regulations)
    - Statutory Inspections and Testing (Equipment)
    - First aid kit
    - Fire extinguisher (checking expiring date)

<b>CONSUMABLES</b>	<p>The following Consumables:</p> <ul style="list-style-type: none"> <li>○ Pens, paper, training stationery, charts, calculators</li> </ul> <p>The provider must have logbooks to capture learner progress against the practical activities</p> <p>The provider must have the following as stated in the given statements:</p> <ul style="list-style-type: none"> <li>○ Scenario, safety data sheet, DGD, TRECARD, drawing/photos, placards, works order, checklists, relevant aspects of standards and legislation, protocols, equipment and tools, work instructions, specific policies and procedures, forms and templates</li> </ul>
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<b>ASSESSMENT CENTRE</b>
Not applicable

**Human Resource Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<p>Facilitator must have a minimum NQF Level 5 facilitator competencies (Facilitation of learning in occupational contexts, or equivalent) and 5-year experience in dangerous goods.</p> <p>Assessment Official (SME) must have a minimum NQF Level 5 assessment competencies as an Assessment Practitioner (Assessment principles and practices and/or Plan and conduct the assessment of learner competencies, or equivalent) and 5-year experience in dangerous goods</p>
<b>FACILITATOR/LEARNER RATIO</b>	Facilitator/learner ratio 1: maximum 20

<b>ASSESSMENT CENTRE</b>
Not applicable

**Legal Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>	
<b>QUALIFICATIONS &amp; EXPERIENCE</b>	<ul style="list-style-type: none"> <li>● CIPC registered entity</li> </ul>

	<ul style="list-style-type: none"> <li>• SARS Tax compliance pin</li> <li>• Compliant and current health and safety audit report</li> <li>• Relevant labour legislation visible in facility or on platform (as required by current legislation)</li> <li>• POPI policy</li> <li>• Approved by Minister of Transport in terms of National Road Traffic Act No. 93 of 1996 for dangerous goods drivers of all classes of vehicles</li> </ul>
<b>FACILITATOR/LEARNER RATIO</b>	N/A

<b>ASSESSMENT CENTRE</b>
Not applicable

**Additional Requirements:**

<b>SKILLS DEVELOPMENT PROVIDER (SDP)</b>
None

<b>ASSESSMENT CENTRE</b>
None

**4.4.3 Exemptions**

None

## 5 POSSIBLE SEQUENCING AND INTEGRATION

ORDER	MODULE TITLE	MODULE CODE	LEVEL	CREDITS
1.	Dangerous Goods Classification	900282-000-00-KM-01	3	1
2.	Complete documents for road transport of dangerous goods	900282-000-00-PM-01	3	1
3	Check and implement compliance checks on documentation in terms of legislative requirements	900282-000-00-PM-02	3	1
4	Dangerous Goods Legislation and Regulations	900282-000-00-KM-02	3	1
5	Dangerous Goods Responsibilities and Duties	900282-000-00-KM-03	3	1
6	Conduct pre-, in-transit, and post-trip inspections and general safety compliance	900282-000-00-PM-03	3	1
7	Handle, load, and offload dangerous goods	900282-000-00-PM-04	3	2