

BQA NCQF Qualification Template

DNCQF.FDMD.GD04

Issue No.: 01

QUALIFICATION SPECIFICATION							SECTION A
QUALIFICATION DEVELOPER	Mega Size College						
TITLE	Bachelor of Science in Fleet Management and Logistics				NCQF LEVEL	7	
FIELD	Business, Commerce and Management Studies		SUB-FIELD		Transport Management and Logistics		
New qualification	✓	X	Review of existing qualification				
SUB-FRAMEWORK	General Education			TVET		Higher Education	✓
QUALIFICATION TYPE	Certificate			Diploma		Bachelor	✓
	Bachelor Honours			Master		Doctor	
CREDIT VALUE						515	
RATIONALE AND PURPOSE OF THE QUALIFICATION							
<p>Rationale</p> <p>The Human Resources Development Council Top Occupations in Demand (HRDC 2016) has identified the transport and logistics sector as a priority area for skills development based on the sub-sectors growth and potential for creation of employment.</p> <p>The Botswana Transport & Infrastructure Statistics Report (2015) also postulates that the transport sector in Botswana has played an important role in economic growth in the 50 years post-independence. This assertion is justified by statistics to the effect that the Transport sector's contribution to the Country's GDP has been on the rise since 2006 (2.6%), to 5.6% in 2015. It should be noted that Vehicle Fleet Management is a form of Transport Management hence it falls under Transport field of study.</p>							

Further, the National Development Plan (NPD11) asserts the need for qualified personnel in logistics and supply chain management. The Plan states that the country would undertake reforms to facilitate the movement of goods and services, for efficiency and effectiveness, through the simplification and streamlining of import and export procedures, as well as the modernization of border procedures and control techniques.

The Botswana's Vision 2036 (2015:15-19) explains that transport and logistics sector in Botswana are playing a central role in bankrolling the economic activities through their supporting of the movement of goods and services. In acknowledgement of these positive contributions, the Botswana Government has set among its priorities the development of the transport sector by driving infrastructural development. The Vision 2036 (2015:17) further explains that Transport and logistics services are essential for the economy to support the movement of persons, goods and services.

Transport and Logistic professionals remain in high demand in Botswana (HRDC, Top Occupations in High Demand, Dec 2016, p3). As espoused in the Botswana Vision 2036, Transport and Logistics are enablers of other business sectors as they play a key role in the facilitation of all sectors, hence the need to develop the qualification in Fleet and Logistics Management. In this end it should be noted that Procurement and Supply involves both transport and logistics. The skill demand in this area is also supported by the HRDC Labour Market Observatory which identifies transport and logistics as critical drivers all other sectors from Health, Education, ICT, Research & Innovation, to Science & Technology. Botswana will be developing into a regional transport corridor moving and connecting people goods and services with the rest of the world (Vision, 2036, p. 18).

Purpose

This qualification will provide graduates with knowledge, skills, and competences to:

- Apply relevant conceptual frameworks to the management of fleet and logistics.
- Develop managerial, professional and industry specific skills in fleet management.
- Communicate ideas and decisions related to transport logistics using appropriate professional or occupational standards.
- Develop evidence-based solutions to complex real-world problems and issues pertaining to Fleet Management and Logistics.

- Conduct research to solve complex problems within the Transport Management.

ENTRY REQUIREMENTS (including access and inclusion)

The minimum entry requirements:

- NCQF Level 4 or any equivalent qualification such as Cambridge or BGCSE.
- In addition to the above admission criteria, relevant experience in the business sector will also be considered. This is recognition of prior learning (RPL).

QUALIFICATION SPECIFICATION

SECTION B

GRADUATE PROFILE (LEARNING OUTCOMES)

ASSESSMENT CRITERIA

1. Apply systems analysis to transportation, logistics, and supply chain management.

- 1.1 Outline the coherence that exists between logistics management and systems analysis.
- 1.2 Explain the degree of current integration of the transport function with other supply chain echelons.
- 1.3 Develop a framework to support managers in determining alternative steps to be undertaken to integrate their transport operations better within their supply chains.
- 1.4 Examine the transportation systems' political, regulatory, and legal issues.

2. Apply the fundamental philosophies of Fleet Management and Logistics management.

- 2.1 Describe the competition and ownership options under which individual transport businesses (private and public) operate.
- 2.2 Explain privatization, economic deregulation, competitive tendering.
- 2.3 Identify competitive value of logistics management.
- 2.4 Analyze competitive tendering as a market model in transport.
- 2.5 Review the forces (or variables) to be considered in the market environment based on the Porter's mode.
- 2.6 Outline the theoretical principles of alternative pricing strategies in transport.

	<p>2.7 Explain profit maximization, social welfare maximization and constrained social welfare maximization.</p> <p>2.8 Examine the nature and pattern of transport plans.</p>
<p>3. Apply fundamental principles of fleet management, freight transport and development of alternative transport networks.</p>	<p>3.1 Analyze the demand for transport with due consideration of factors that influence demand.</p> <p>3.2 State the need for fleet management.</p> <p>3.3 Differentiate individual total cost coverage, incremental cost coverage and value of service.</p> <p>3.4 Explain tariffs (rates or fares) under varying market circumstances.</p> <p>3.5 Critically discuss approaches to be followed in developing alternative transport networks.</p> <p>3.6 Make proposals on the procedure to assign current and future traffic to different transport networks.</p> <p>3.7 Outline the principles of freight transport regulation.</p> <p>3.8 Compare and contrast regulation of freight transport in Botswana with those of SADC countries.</p> <p>3.9 Describe loading units, transfer equipment and communication systems in intermodal transport.</p>
<p>4. Formulate workable and evidence-based solutions to complex real-world problems and issues pertaining to Fleet Management and Logistics.</p>	<p>4.1 Identify urban transport problems in Botswana.</p> <p>4.2 Evaluate the external environment within which fleet has to be managed.</p> <p>4.3 Discuss institutional, economic, technological, social, physical and market environments of fleet.</p> <p>4.4 Formulate proposals on the provision of quality fleet management and logistics by referring to user requirements.</p> <p>4.5 Discuss approaches for effective and efficient fleet planning including fleet composition, vehicle selection, vehicle maintenance and replacement) is formulated.</p> <p>4.6 Outline the vehicle maintenance plan.</p> <p>4.7 Evaluate the vehicle maintenance plan.</p>

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	<p>4.8 Examine key performance indicators (KPI's) for transport operations.</p> <p>4.9 Compare and contrast urban transport problems in Botswana with those of SADC countries.</p> <p>4.10 Analyze the relationship between fleet management and logistics.</p>
5. Apply a range of research methods, techniques, and technologies so as to select those appropriate for a particular research problem in Fleet Management and Logistics.	<p>5.1 Formulate a research problem which relate to fleet management and/or logistics.</p> <p>5.2 Formulate appropriate research questions for the research.</p> <p>5.3 Construct an appropriate research design.</p> <p>5.4 Present an appropriate research methodology to be used in the research.</p> <p>5.5 Present and defend a research proposal.</p> <p>5.6 Conduct research project.</p>
6. Analyze quantitative and qualitative data pertaining to Fleet Management and Logistics research.	<p>6.1 Generate primary data that relates to the research problem.</p> <p>6.2 Synthesis quantitative and/or qualitative data</p> <p>6.3 Gather data on the problem.</p> <p>6.4 Analyze quantitative data using statistical tools.</p> <p>6.5 Analyze qualitative data using the thematic method.</p>
7. Generate recommendations from findings obtained on problems associated with Fleet Management and Logistics research work and present them.	<p>7.1 Review information generated through literature review.</p> <p>7.2 Interpret data in accordance with the research objectives.</p> <p>7.2 Make appropriate and suitable recommendations to targeted audiences.</p>

QUALIFICATION STRUCTURE			
SECTION C			
FUNDAMENTAL COMPONENT	Title	Level	Credits
	Introduction to Business Communication and Study Skills.	5	10
	Introduction to Transport Economics	5	10

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Subjects / Units / Modules /Courses	Information Communication Technology (ICT)	5	10
	Introduction to Business Management	5	10
	Introduction to Statistics.	5	10
	Fundamentals of Operations Management	5	10
	Principles of Accounting for Fleet Management	6	10
CORE COMPONENT Subjects / Units / Modules /Courses	Introduction to Fleet Management Systems	6	10
	Business Law for Fleet Management	6	10
	Principles of Fleet Management	6	10
	Principles of Logistics Management	6	10
	Essentials of Entrepreneurship	6	10
	Public Passenger Fleet Management	7	15
	Fleet Management Systems	7	15
	Fleet Risk Management	7	15
	Fleet Maintenance Management	7	15
	Procurement in Fleet Management	7	15
	Fleet Outsourcing	7	15
	Advanced Fleet Management Systems	7	15
	Research Methods	7	15
	Stores, Inventory Management & Stock Control	7	15
	Operations Research for Business	7	15
	Insurance for Fleet Management	7	15
	Short-term Rental Management	7	15
	Procurement Strategies in Fleet Management	7	15
	Strategic & Global Sourcing Management	7	15
	Undergraduate Major Project	7	20
	Internship (Work Related Attachment	7	45
	Vehicle Tracking System	7	15
	Fleet Management Leasing and Rental.	7	15
	Fleet Market Analysis	7	15

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	Vehicle Selection	7	15
	Fleet Management Policy	7	15
	Logistics Management	7	15
ELECTIVE COMPONENT (SELECT TWO) Subjects / Units / Modules /Courses	Management Information Systems	7	15
	Leadership Development	7	15
	Global Supply Chain Management	7	15
	Organizational Behaviour	7	15
	Total Quality Management	7	15
	Corporate Social Responsibility	7	15
	Quantitative Methods for Management	7	15
	Labour Relations	7	15

Rules of combinations, Credit distribution (where applicable):

Level 5 consists of 60 credits

Level 6 consists of 60 credits

Level 7 consists of 395 credits

Total Credits = 515

The credit combination for this qualification is from 70 fundamental components, 415 core components and the remaining 30 is from elective components where the candidate has to choose any two.

ASSESSMENT AND MODERATION ARRANGEMENTS

Formative assessment and Summative assessment

The contribution of formative assessment to the final grade shall be 60% which is higher than the summative assessment which will contribute 40%. To pass a course, a candidate must achieve a minimum of **50%**.

Moderation Arrangements

Internal and external moderation will be conducted by BQA registered and accredited moderators.

RECOGNITION OF PRIOR LEARNING (if applicable)

Recognition of Prior Learning (RPL) and Credit Accumulation and Transfer (CAT) will be done in line with institutional and national RPL policies.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

ARTICULATION PATHWAYS

Systemic articulation is possible horizontally and vertically with qualifications offered by other institutions, provided learners meet the minimum admission requirements. The possibilities are:

Horizontal Articulation:

- Bachelor of Fleet/ Transport and Logistics, at NQF Level 7
- Bachelor of Logistics, at NQF Level 7.
- Bachelor of Commerce in Transport Economics, at NQF Level 7.
- Bachelor of Philosophy in Maritime: Transportation and Logistics, at NQF Level 7.
- Bachelor of Commerce in Supply Chain Management, at NQF Level 7.

Vertical Articulation:

- Postgraduate Diploma in Transport and Logistics, at NQF Level 8
- Honours Degree in Commerce in Fleet or Logistics Management, at NQF Level 8.
- Honours Degree in Logistic Management, at NQF Level 8.
- Honours Degree in Transport and Logistics, at NQF Level 8
- Master's Degree in Commerce in Fleet/ Transport and Logistics Management, at NQF Level 8.
- Master's Degree in Logistic Management, at NQF Level 8.
- Master's Degree in Transport and Logistics, at NQF Level 8

EMPLOYMENT

The course is aimed principally at providing graduates who can operate as independent consultants or be employed fulltime in both the public and private sector.

Graduates can pursue their careers as:

- Fleet managers
- Fleet coordinators
- Fleet maintenance managers
- Fleet supervisors
- Transportation planners
- Fleet safety managers
- Transport operations manager

QUALIFICATION AWARD AND CERTIFICATION

Candidates meeting the prescribed requirements will be awarded the qualification in accordance with the qualification composition rules and applicable policies. To be eligible for the award, candidates must have successfully completed all core and elective modules and passed examinations in accordance with regulations set by the faculty. A Bachelor of Science Degree in Fleet and Logistics Management will be awarded to candidates who have obtained a minimum of 515 credits.

REGIONAL AND INTERNATIONAL COMPARABILITY

INSTITUTIONS OFFERING SIMILAR QUALIFICATIONS

Lyceum College in South Africa offers a Diploma in Fleet Management at NCQF LEVEL 6 consisting of 260 credits, which is accredited by SAQA and is a two-year qualification. The lyceum College is pegged at level 6 unlike this one which is at level 7.

American Military University- offers Bachelor of Arts in Transportation and Logistics Management at NCQF LEVEL 7 consisting of 510 credits The degree has both the transport and the logistic component. The degree is a four-year degree which composes of modules such as policy, legal issues. The America Military University is pegged at NCQF Level 7 which is similar in terms of level with this qualification which is at NCQF Level 7.

Malaysia University- offers a three-year Bachelor of Science in Transportation and Logistics at NCQF LEVEL 7 consisting of 520 credits which is aimed at producing professionals who are well equipped to

analyze and solve problems in the Transportation and Logistics industry. What is apparent is that the qualification has a combination of transport and logistics, which is in tandem with this qualification; The Malaysia University is pegged at NCQF Level 7 which is similar in terms of level with this qualification which is at NCQF Level 7.

COMPARABILITY:

Direct comparison with international qualifications was not achieved, but there are a number of similarities in content, duration and learning outcomes.

Lyceum College offers a Diploma in Fleet Management which has similar modules such as vehicle maintenance, systems, Short-term Rental Management, Motor Industry Market Analysis and Vehicle Selection and Procurement among others.

Malaysia University Bachelor of Science in Transportation and Logistics is like this qualification in terms of its learning outcomes which are aimed at producing professionals who are well equipped to analyze and solve problems in the Transportation and Logistics industry. It is also similar in terms of combining transport and logistics, which is in tandem with this qualification,

American Military University Bachelor of Arts in Transportation and Logistics Management which is similar to this qualification in terms of the duration of 4 years and has both the transport and the logistic component.

Differences:

Lyceum College offers a Diploma in Fleet Management but does not offer the logistics component in their curriculum.

American Military University Bachelor of Arts in Transportation and Logistics Management's concentration is not only in vehicle/fleet management but other facets of transport such as marine and air transport.

Summary:

In purview of the above, the proposed qualification in Fleet and Logistics has a cut above all the noted competitors in that it brings out a well-balanced learner in the areas of fleet and logistics.

REVIEW PERIOD



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The qualification will be reviewed after five years after running its full cycle. However, ad-hoc reviews will be done in line with environmental changes.

Other information – please add any supplementary information to help the application for this qualification for NCQF Registration.