

BQA NCQF QUALIFICATION TEMPLATE

SECTION A: QUALIFICATION DETAILS											
QUALIFICATION DEVELOPER (S)		BA ISAGO University									
TITLE	Master of Commerce in Transport Management and Logistics						NCQF LEVEL		9		
STRANDS (where applicable)	N/A										
FIELD	Services						CREDIT VALUE		240		
SUB FIELD	Transport Services										
New Qualification		✓		Legacy Qualification			Renewal Qualification				
							Registration Code				
SUB-FRAMEWORK		General Education			TVET			Higher Education			✓
QUALIFICATION TYPE	Certificate	I	II	III	IV	V	Diploma	Bachelor			
	Bachelor Honours			Post Graduate Certificate			Post Graduate Diploma				
	Masters				✓	Doctorate/ PhD					
RATIONALE AND PURPOSE OF THE QUALIFICATION											
<p>RATIONALE:</p> <p>Botswana's vision 2036 aligns with the desire to meet four pillars, and pillar one focuses on sustainable economic development. The pillar aims to ensure that Botswana will be a high-income country, with an export-led economy underpinned by diversified, exclusive and sustainable growth driven by high levels of productivity. These include doing business and competitiveness, infrastructure development, informal sector and the micro and small enterprises, mineral sector, agricultural sector, manufacturing sector, tourism, services. All these developmental sectors can only function if there is effective movement of goods and people as well as adequate flow of information and finances. Adequately trained human resource is a paramount requirement and can only be enhanced by relevant people with knowledge of transport and logistics management. The proposed qualification therefore focuses on transport and logistics as key supply chain management frameworks. Given the turbulent economic</p>											

environment prevailing in the southern African region and the international community the government of Botswana recognises the importance of transport and logistics as spelt out in Vision 2036, Pillar 1. The need to develop human capital in this sector is of high priority in an endeavour to close the gap that exists in the availability of experts with the requisite skills and knowledge to manage and lead the sector development. The qualification will also add value to human resource capacity and capability base in the country to ensure that the vision of a Knowledge Based Economy is a reality to the transport and logistics industry. The national Vision 2036 has also laid down the desire to make Botswana a regional transport and logistics hub. This raises the need for a curriculum that develops logisticians who will be ready to drive strategies for attainment of the national vision on transport and logistics priorities.

The HRDC top priority list of Priority Occupations and Skills (2023/2024), has indicated that there is need for Transport and Operations Managers who has the skills in the areas of Transport Operations, Tracking & Booking Software, Fleet Management & Route Planning, Goods Handling Procedures, BOBS Procedures and others. The HRDC further acknowledged how transport lubricates all the logistics activities through different transport and logistics sub-sectors namely road, rail, air, water and road transport. Road transport is the most used mode in Botswana. There has been an increase in the demand for road freight transport thereby opening for opportunities of establishing companies that could profit well and create employment. Other sectors like rail and air also need more specialised managers to propel them to the desired levels of modal shares in the industry.

The proposed qualification will equip learners with much needed strategic transport and logistics skills to promote sustainable development in Botswana and enhance global competitiveness. Transportation and logistics is the backbone of the global supply chain and the graduates will gain the skills to devise and implement optimal methods of logistics and mass distribution services.

PURPOSE: (itemise exit level outcomes)

The purpose of this qualification is to produce graduates with advanced knowledge, skills, and competences to:

- Apply advanced analytical and problem-solving skills to complex issues in transport and logistics concepts.
- Conduct strategic planning, resource management and make high level operational decisions in relation to the contemporary transport and logistics environment.

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- Apply global logistics and transport systems advanced knowledge in diverse multicultural environments and manage cross border logistics operations.
- Implement and manage logistics software and technologies for tracking and optimizing operations.
- Conduct high level research and contribute to innovation in transport and logistics.

MINIMUM ENTRY REQUIREMENTS (including access and inclusion)

- i. The candidates must have a minimum of bachelor's degree, NCQF Level 7 or equivalent.
OR
- ii. Candidates who do not meet the minimum academic qualifications stated above will be considered through Recognition of Prior Learning (RPL) process which shall be administered according to the National RPL Policy. There will also be provision for Credit Accumulation Transfer to the learner in case they transfer from another institution as per National Policy on CAT.

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SECTION B		QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)		ASSESSMENT CRITERIA	
<p>1. Demonstrate an understanding of advanced knowledge of theories, models, concepts and techniques required in managing complex procurement and logistics issues in supply chain management.</p>	<p>1.1 Apply advanced knowledge of key concepts and theories in transport and logistics management, including supply chain risk management, transportation planning, and inventory management.</p> <p>1.2 Recommend the relevant effective models and techniques to real-world scenarios in procurement and logistics, such as logistics and supply network design and demand forecasting.</p> <p>1.3 Evaluate multiple perspectives and approaches in solving procurement and logistics issues.</p> <p>1.4 Employ sophisticated models to analyse and address intricate challenges within procurement and logistics in the context of supply chain management.</p>		

	<p>1.5 Develop the ability to work independently and as part of a team on transport and logistics projects, demonstrating effective project management skills and team collaboration.</p> <p>1.6 Apply ethical and professional standards in procurement and logistics management, demonstrating an understanding of the social, environmental, and economic impact of supply chain decisions.</p>
<p>2. Implement green transport strategies and solutions to promote sustainability throughout the entire logistics process, fostering environmentally responsible decision-making.</p>	<p>2.1 Implement eco-friendly routing strategies taking into account factors such as emission reduction, traffic congestion avoidance, in order to optimize fuel-efficient paths.</p> <p>2.2 Integrate green transport practices into broader supply chain management, promoting sustainability throughout the entire logistics process and fostering environmentally responsible decision-making.</p> <p>2.3 Assess measures to monitor and reduce carbon emissions in transport operations utilizing tools and technologies to measure, track, and offset environmental impact.</p> <p>2.4 Develop policies that support green transport initiatives aligning organizational strategies with environmental goals and compliance with sustainability regulations.</p> <p>2.5 Assess the economic viability of green transport solutions, considering cost-effectiveness, return on investment, and long-term financial benefits associated with sustainable transportation practices.</p>

<p>3. Design innovative efficient transport techniques to support the development of transport operations and networks.</p>	<p>3.1 Analyse various factors influencing transportation routes and develop strategies to optimize route planning, minimizing transit time and cost.</p> <p>3.2 Demonstrate proficiency in leveraging advanced transportation technologies, such as GPS tracking, real-time monitoring, and automated systems, to enhance the efficiency and accuracy of transport operations.</p> <p>3.3 Evaluate potential risks and challenges in transportation operations and implement proactive measures to mitigate disruptions, ensuring a smooth and reliable supply chain.</p> <p>3.4 Utilise the advanced knowledge in optimizing fleet management, including vehicle maintenance, scheduling, and resource allocation, to improve overall operational efficiency and reduce downtime.</p> <p>3.5 Evaluate relevant key performance indicators (KPIs) in transportation management, enabling them to assess the effectiveness of strategies and make informed decisions for continuous improvement.</p>
<p>4. Execute advance Logistics and Transport Communication systems and strategies in management of transport to ensure transparency and seamless collaboration among all stakeholders.</p>	<p>4.1 Design a clear and concise documentation for transport-related communications, including reports, instructions, and updates, to ensure transparency and understanding among all involved parties.</p> <p>4.2 Utilize various communication channels relevant to transport management, ensuring timely and accurate exchange of information among stakeholders.</p>

	<p>4.3 Coordinate and communicate effectively within cross-functional teams involved in transport operations, promoting seamless collaboration and achieving common objectives.</p> <p>4.4 Develop problem-solving skills to address communication challenges in transport management, ensuring quick resolution of issues and minimizing the impact on operational efficiency.</p> <p>4.5 Demonstrate high level of negotiation skills to secure favourable contracts with carriers, suppliers, and other stakeholders.</p> <p>4.6 Implement effective crisis communication strategies in transport management, maintaining transparency and managing stakeholder expectations during unforeseen events or disruptions.</p> <p>4.7 Apply advanced knowledge in leveraging digital communication tools and platforms tailored for the transport industry, enhancing efficiency and collaboration in information exchange.</p>
<p>5. Conduct specialised research to solve issues and contribute to innovation in transport management and logistics arena.</p>	<p>5.1 Analyze complex transportation and logistics problems, identify root causes, and recommend solutions.</p> <p>5.2 Use quantitative and qualitative research methods to collect and analyse data.</p> <p>5.3 Apply data-driven approach to decision-making in the transport management and logistics sector.</p> <p>5.4 Assess the quality and relevance of published logistics information and make judgements</p>

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	<p>about the usefulness and appropriateness of this information (developed across the range of assessments).</p>
<p>6. Implement time and cost-effective fleet management strategies to achieve lean logistics practices.</p>	<p>6.1 Analyse and optimize transportation routes to enhance efficiency and reduce operational costs.</p> <p>6.2 Utilize technologies, such as route optimization software, real-time tracking systems, and data analytics tools to streamline operations to minimize delays, and reduce overall transportation costs.</p> <p>6.3 Apply advanced cost-effective fleet management practices to optimize resource allocation, leading to a reduction in operational expenses.</p> <p>6.4 Integrate time-saving practices into transport management, such as synchronized loading and unloading procedures to minimizing idle times and enhancing overall operational productivity.</p> <p>6.5 Cultivate a culture of continuous improvement in transport management, applying feedback mechanisms and performance metrics to identify areas for enhancement leading to ongoing time and cost reductions.</p>

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SECTION C	QUALIFICATION STRUCTURE		
	TITLE		Total Credits

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COMPONENT		Credits Per Relevant NCQF Level			
		Level []	Level [9]	Level []	
FUNDAMENTAL COMPONENT Subjects/ Courses/ Modules/Units	Research Methods		30		30
CORE COMPONENT Subjects/Courses/ Modules/Units	Logistics Finance		12		12
	Logistics Information Systems		10		10
	Transport and Infrastructure Management		10		10
	Transport Economics and Planning		12		12
	Customs and Regional Trade		10		10
	Logistics Corporate Governance		10		10
	Production and Operations Management		10		10
	Project Management in Supply Chain		12		12
	Procurement Strategies and Plans		12		12
	Warehousing and Inventory Management		10		10
	Strategic Fleet Management		12		12
	International Transport Logistics		10		10
	Dissertation		80		80
					Total Credits

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STRANDS/ SPECIALIZATION	Subjects/ Courses/ Modules/Units	Credits Per Relevant NCQF Level			
		Level []	Level []	Level []	
1.	N/A				
2.					
Electives	N/A				

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SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL

TOTAL CREDITS PER NCQF LEVEL

NCQF Level	Credit Value
9	240
TOTAL CREDITS	240

Rules of Combination:

(Please Indicate combinations for the different constituent components of the qualification)

The credit distribution is made up of 30 credits from the fundamental component and 210 credits from the core component.

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ASSESSMENT ARRANGEMENTS

All assessments which are leading to the award of the qualification should be based on learning outcomes and associated assessment criteria. The assessments will be as follows:

i. Formative assessment

The weighting of formative assessment is 60% of the Final assessment mark.

ii. Summative assessment

The weighting of summative assessment is 40 % of the Final assessment mark.

MODERATION ARRANGEMENTS

Assessments will be internally and externally moderated by qualified moderators in line with approved moderation policies.

RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL) will be applicable for consideration for award in this qualification.

CREDIT ACCUMULATION AND TRANSFER

Credit Accumulation Transfer (CAT) will be applicable for consideration for award in this qualification.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Learning Pathways

Vertical Articulation:

- PhD Logistics Management
- PhD Operations Research
- PhD Transport Economics
- PhD in Logistics & Supply Chain Management
- PhD in Operations Management
- PhD in Environmental Sustainability & Transport
- PhD Business Administration

Horizontal Articulation:

- Master of Commerce in Supply Chain Management
- Masters in Warehouse and Inventory Management
- Masters in Logistics

Employment Pathway

- Transport Manager
- Logistics Manager
- Supply Chain Manager
- Logistics Planner
- Logistics Engineer
- Demand Planner
- Transport Coordinator
- Fleet Manager
- International Logistics Manager
- Inventory Manager
- Logistics Analyst
- Consultant in Transport Management and Logistics
- Contracts Manager
- Distribution 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 of the Master of Commerce in Transport Management and Logistics candidates should have obtained a minimum of 240 credits. A certificate will be issued to learners who are awarded the qualification.

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

The proposed qualification has been benchmarked with the following:

- Master of Science in Transport and Logistics – The International University of Management (Namibia)
- Master of Commerce in Logistics Management – Stellenbosch University (South Africa)

- Master of Science in Logistics and Transport Management – University of Gothenburg (Sweden)

The benchmarking exercises revealed that the proposed qualification compares favourably with the aforementioned qualifications offered by regional and international universities. All the qualifications are pitched at Level 9, with respect to their different qualification frameworks adopted by each country (NCQF, NQF and EQF). In addition, the qualifications have similar titles, although the University of Stellenbosch's qualification title have only Logistics aspect, unlike other qualifications that have doubled with Transport. Furthermore, the qualifications collectively aim to provide critical thinking and analytical skills to enable learners to analyse and design solutions for the real world and theoretical transport and logistics problems. There are also similarities in terms of the domains found in the proposed qualification and the ones benchmarked with which are Logistics, Transport and Research. Unlike the other qualifications, University of Stellenbosch's qualification has an option to be offered as a pure Thesis, without any modules. In terms of assessment strategies, all the qualifications use formative and summative assessments. These includes assignments, tests, projects, research and examinations. The rule for award of qualification in all the qualifications is for learners to complete all compulsory modules and attain the minimum required credits.

There are notable differences between the qualifications. Although all the qualifications, save for University of Stellenbosch's qualification with duration of 1 year, run for duration of 2 years they carry different credit values. The International University of Management and the proposed qualifications have 240 credits, while the University of Stellenbosch and University of Gothenburg's qualifications carry 180 and 120 credits respectively.

In terms of articulation, all qualifications have similar routes for educational progression and employment pathways. The common education progression pathways for all the qualifications are PhD degrees in Transport Economics, Logistics & Supply Chain Management and Operations Management. The qualifications have similar employment pathways such as Transport Manager, Logistics Manager, Supply Chain Manager, Logistics Planner, Logistics Engineer, Demand Planner and Transport Coordinator.

REVIEW PERIOD

This qualification will be reviewed after 5 years upon registration.



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For Official Use Only:

CODE (ID)			
REGISTRATION STATUS	BQA DECISION NO.	REGISTRATION START DATE	REGISTRATION END DATE
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT	



BOTSWANA
Qualifications Authority