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**SECTION A: QUALIFICATION DETAILS**

<b>QUALIFICATION DEVELOPER (S)</b>		Woo International skills Development and Assessment									
<b>TITLE</b>	Certificate IV in Rigging								<b>NCQF LEVEL</b>	4	
<b>FIELD</b>	Manufacturing, Engineering and Technology			<b>SUB-FIELD</b>	Rigging			<b>CREDIT VALUE</b>	6 6		
<i>New Qualification</i>				<input checked="" type="checkbox"/>		<i>Review of Existing Qualification</i>					
<b>SUB-FRAMEWORK</b>	<i>General Education</i>			<input type="checkbox"/>		<i>TVET</i>		<input checked="" type="checkbox"/>		<i>Higher Education</i>	
<b>QUALIFICATION TYPE</b>	<i>Certificate</i>	<i>I</i>	<i>II</i>	<i>III</i>	<i>I</i>	<i>V</i>	<input checked="" type="checkbox"/>	<i>V</i>	<i>Diploma</i>	<i>Bachelor</i>	
	<i>Bachelor Honours</i>			<i>Post Graduate Certificate</i>				<i>Post Graduate Diploma</i>			
	<i>Masters</i>					<i>Doctorate/ PhD</i>					


**RATIONALE AND PURPOSE OF THE QUALIFICATION**

**RATIONALE:**

The reasons for training learners on Rigging and facilitating the holistic development of people who can operate in a global context, is to achieve a high quality and fitness of purpose for training offered.

The policy, statutory and legislative context on the basis of which this qualification is being developed for registration and eventual awarding are include in the creation of a knowledge- based education system to respond to economic needs, responding to diversification of the economy to include education and skills development and citizen economic empowerment using education and training as a tool and asset.

The scope of the qualification covers finding of training needs assessment undertaken in a specific desk research, job tasks analysis and determination of what employers believe are the knowledge, skills and competencies.

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By developing and packaging it as an outcomes-based credits awarding qualifications makes it credible valuable and useful to enable mobility of holders across borders and as entry currency to other similar level and higher qualifications in this vocation (horizontal and vertical articulation).

This design thus conforms to National Credit and Qualifications Framework (NCQF) policy for enabling lifelong earning by outcomes and credits system, which opens access to education to many through Recognition of Prior Learning (RPL) and enable Credit Accumulation and Transfer (CAT) across Institutions and qualifications.

Human Resources Development Sector Skills Plans (2017) indicators identifies demand for people with Rigging at this level, to support productive safe work that contributes to economic growth of different sectors of the economy that are dependent on skilled human resources domain.

Labour statistics analysis and National Development Plan (NDP 11, April 2017) identified various mega development projects that will apply mechanical handling or rigging operations in support of mechanical engineering services for these projects.

This thus raises demand for human resources with rigging competencies and qualified with a suit of skills required in these jobs. The qualification could contribute to address the national problem of unemployed youth and increase the employability of graduates in certain vocational areas with acquisition of rigging skills.


The qualification is designed to guide providers in developing learning programmes, according to the needs of industry for people with this skill, and circumstances of the learners. People credited with this qualification contribute to the rendering of lifting and mechanical handling tasks by the application of knowledge and skills.

This qualification serves the needs of the society and the economy by providing rigging support services in the mechanical handling of structures, goods, and equipment. It will help in producing competent learners who are able to contribute to improved productivity and efficiency within the engineering support environment. They will be able to work according to legislative, regulatory and quality assurance requirements and industry standards.

HUMAN RESOURCES DEVELOPMENT COUNCIL (HRDC) PRIORITY SKILLS AND EMPLOYMENT TRENDS (2019), table 4, categorizes Rigging as one of the top occupations in demand for Botswana. The report places emphasis on specialization for Artesian, and the proposed Certificate IV IN RIGGING qualification will address this need. Further, the report indicates that the technical skills required for this profession include amongst others, Safety Health and Environment (SHE), which this qualification has included as the Exit Learning Outcome 7. The Report also outlines Soft Skills such as Team Player, as critical for rigging as occupation, and this qualification has incorporated it as the Exit Learning Outcome 8

**PURPOSE:**

The qualification is thus designed to recognize and influence training of graduates who would know and be able at exit point to:


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- Comply with workplace requirements for safety, health, and environment, including regulatory requirements for rigging loads.
- Operate steel wire ropes and mechanical lifting equipment to secure loads/ cargo for transportation
- Use different techniques and rigging hardware to lift and handle loads.
- Conduct maintenance and inspections on lifting machinery and equipment as well as taking care of different ropes in a rigging.

***ENTRY REQUIREMENTS (including access and inclusion)***


The normal entry requirement is:

1. Certificate III (NCQF Level 3), or equivalent.
2. There is provision for entry through RPL and CAT.

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<b>SECTION B QUALIFICATION SPECIFICATION</b>	
<b>GRADUATE PROFILE (LEARNING OUTCOMES)</b>	<b>ASSESSMENT CRITERIA</b>
<p>1. Use verbal and written language to communicate effectively in the workplace.</p>	<p>1.1 Apply verbal communication using the right language for the industry.            1.2 Use the right forms of communication in normal work processes.            1.3 Use basic mathematical processes to solve every day rigging problems.            1.4 Portray interpersonal attributes applicable to rigging work environment, for the safety and health of self and others.</p>
<p>2. Apply knowledge of legislation, regulations, and standard practices requirements for rigging loads.</p>	<p>2.1 Apply Legislation that affects ones occupational SHE context is identified by name to handle all incidents and scenarios.            2.2 Apply current legislation, regulations and standard practices to the right SHE incident and scenario to meet set target.            2.3 Apply workplace requirements and procedures consistently and in accordance with company policy.            2.4 Apply OHSE legislation complies with company procedures and nature of business.            2.5 Apply Hazards and risk management initiatives.            2.6 Perform rigging tasks in safe manner and in accordance with OHSE.</p>
<p>3. Use steel wire ropes, winder ropes and mechanical lifting equipment in accordance with industry specifications.</p>	<p>3.1 Identify Standard equipment, tools and machinery used in rigging by names and use correctly in accordance with industry practices.            3.2 Identify the ropes used in rigging by specific use and make up.            3.3 Choose the right lifting equipment for a rigging task, in accordance with industry practices and its manufacturer specifications.            3.4 Explain winder ropes and their classification and functions.            3.5 Winder ropes are cared for to protect them from damage in accordance with rigging practices.            3.6 Winder system is stored in a safe place protected from rust and other damage.</p>

<p>4. Use rigging techniques to lift and handle loads with different lifting equipment as per industry standards.</p>	<p>4.1 Plan sling and lift a load to demonstrate correct interpretation of drawings, and physical resources for the task.</p> <p>4.2 Apply rigging techniques and methods to secure and lift loads in accordance with equipment specifications, with minimal supervision.</p> <p>4.3 Determine slinging method for a regular load after ascertaining the load weight.</p> <p>4.4 Operate lifting machinery used to lift heavy loads, in accordance with manufacturers specifications and safety procedures.</p> <p>4.5 Apply mechanical handling harnessing techniques and process to safely move heavy loads.</p>
<p>5 Conduct maintenance and inspections on lifting machinery and equipment as per manufacturers standards.</p>	<p>5.1 Secure loads and cargo for transportation in terms of type of goods and rigging process.</p> <p>5.2 Use rigging steel ropes are in the loading pf cargo and secure safely in accordance with standard practices.</p> <p>5.3 Secure loads of cargo in a safe and secure manner.</p> <p>5.4 Identify rigging equipment and tools and their uses described according to company and manufacturers specifications.</p> <p>5.5 Carry out basic maintenance of rigging tools and machinery in accordance with company procedures</p>
<p>6. Erect, use and dismantle access scaffolding for riggers as per manufacturers standards</p>	<p>6.1 Identify access scaffolding in terms of type of cargo to be lifted.</p> <p>6.2 Carry out scaffolding erection safely and to the customers' needs and intended use.</p> <p>6.3 Dismantle scaffolding by following set procedure and manufacturers specifications.</p>
<p>7. Demonstrate knowledge and use requirements of current legislation impacting on Safety, Health and</p>	<p>7.1 Apply current legislation, regulations and standard practices to the right SHE incident and scenario to meet set targets.</p>

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<p>Environmental (SHE) issues in the workplace</p>	<p>7.2 Apply legislation that affects ones occupational SHE to handle all incidents and scenarios.</p> <p>7.3 Identify workplace safe work procedures by name and use.</p>
<p>8. Use verbal and written language to communicate effective in teamwork.</p>	<p>8.1 Use verbal communication to interact effectively in the industry.</p> <p>8.2 Use written forms of communication appropriate for normal teamwork processes.</p> <p>8.3 Interpersonal attributes applicable to work environment are always portrayed, for the safety and health of self and others</p>

<b>SECTION C</b>		<b>QUALIFICATION STRUCTURE</b>			
<b>COMPONENT</b>	<b>TITLE</b>	<b>Credits Per Relevant NCQF Level</b>			<b>Total (Per Subject/ Course/ Module/ Units)</b>
		<b>Level [ ]</b>	<b>Level [ ]</b>	<b>Level [ ]</b>	
<b>FUNDAMENTAL COMPONENT</b> <i>Subjects/ Courses/ Modules/Units</i>	Occupational Safety in the workplace	3			3
	Interpreting technical drawings	3			2
	Scaffolding, working at heights	3			3
	Team and Interpersonal Skills	3			2
<b>CORE COMPONENT</b> <i>Subjects/Courses/ Modules/Units</i>	Fundamental Rigging			5	5
	Rigging Materials			5	5
	Moving Heavy Loads		4		4
	Rigging Hardware			5	5
	Rigging Operations			5	5
	Lifting Hitches, Tackles		4		3
	Tie knots, bends and hitches		4		3
Splicing		4		4	


	Fibre, Steel Wire, Winder Ropes And Sheave Wheel		4		4
	Slings	3			3
	Bench Work Tools And Equipment	3			3
	Electric Lifting Equipment		4		3
	Crane Operations		4		4
<b>ELECTIVE/ OPTIONAL COMPONENT</b>  <i>Subjects/Courses/ Modules/Units</i>  <b>NB:</b> Choose one module	Operate pendant controlled overhead crane		4		<b>5</b>
	Operate truck mounted crane		4		<b>5</b>
	Operate counterbalance lift truck		4		<b>5</b>
	Shielded metal arc welding and gas-cutting		4		<b>5</b>
	<b>TOTAL CREDITS</b>				

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<b>SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL</b>	
<b>TOTAL CREDITS PER NCQF LEVEL</b>	
<b>NCQF Level</b>	<b>Credit Value</b>
<b>3</b>	<b>16</b>
<b>4</b>	<b>30</b>
<b>5</b>	<b>20</b>
<b>TOTAL CREDITS</b>	<b>66</b>
<p><b>Rules of Combination:</b>  <b>(Please Indicate combinations for the different constituent components of the qualification)</b></p>	
<p>This Certificate IV in Rigging comprises 66 credits, comprising of Fundamental, Core and elective Components</p> <p><b>Fundamental Components:</b></p> <p>The Fundamental components consist of foundational knowledge to the value of 10 credits all of which are compulsory</p> <p><b>Core Components:</b></p> <p>The core components consist of modules containing applied knowledge and practical skills to the value of 51 credits which are compulsory.</p> <p><b>Elective Components:</b></p> <p>Learners are to choose elective unit standard to the value of at least 5 credits so as to attain a minimum of 66 credits for the qualification.</p>	

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<b>ASSESSMENT ARRANGEMENTS</b>
<ul style="list-style-type: none"> <li>• Assessment will include both formative and summative modes.</li> <li>• Formative assessment will contribute 50% to the overall course grade.</li> <li>• Summative assessment will constitute the other 50% of the overall course grade.</li> <li>• Assessment shall be carried out by BQA accredited Assessors and in accordance with the institutional policies and in line with the national policy.</li> </ul>
<b>MODERATION ARRANGEMENTS</b>
<p>The sole purpose of moderation is to make sure that assessment and marking across all courses is fair, valid and reliable. It also aligns the assessment tool to the outlined learning outcomes, that it is set at an appropriate level of study and that the process of marking is consistently done.</p> <ul style="list-style-type: none"> <li>• There will be both Internal Moderation and External moderation</li> <li>• Moderation for assessment shall be carried out by BQA accredited moderators in accordance with the institutional policies and in line with the national policy.</li> </ul>
<b>RECOGNITION OF PRIOR LEARNING</b>
There is also provision for award of the qualification through RPL.
<b>CREDIT ACCUMULATION AND TRANSFER</b>
There is also provision for award of the qualification through CAT.
<b>PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)</b>
<p><b>Horizontal Pathways</b></p> <ul style="list-style-type: none"> <li>• Certificate IV in Lifting Equipment Operations</li> <li>• Certificate IV in Heavy Plant</li> </ul>

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### **Vertical Pathways**

- Certificate V in Rigging
- Certificate V in Lifting Equipment Operations
- Certificate V in Heavy Plant

### **Employment Pathways**

- Rigger Ropes
- Rigger artisan.

### **QUALIFICATION AWARD AND CERTIFICATION**

A candidate is required to achieve a minimum of 66 credits, inclusive of the fundamental, core and elective components, to be awarded CERTIFICATE IV IN RIGGING qualification.

#### **Certification**

There will be issuance of a certificate and official transcript at award.

### **REGIONAL AND INTERNATIONAL COMPARABILITY**

The proposed CERTIFICATE IV IN RIGGING qualification was benchmarked Regionally from SAQA and Internationally from NZQA

The qualification content is similar in the broad context to the benchmark qualifications, however most of the certificate qualifications offered internationally and regionally constitutes short courses or unit standards in specialized areas.

Compared to the proposed qualification, modules offered in the benchmark qualifications are almost similar when considering the strands or specializations in rigging as a stand- alone.

The New Zealand Qualifications Authority offers unit standards based and reflects a similar level of complexity and duration of study (1 year). The competencies covered in the unit standards although fragmented compare favourably with this qualification.

These components include:

- Maintain and adapt oral and written communication
- Identify and use fibre ropes.
- Inspect, use and care for manual rigging equipment and tackle.
- Demonstrate knowledge of workplace health and safety

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With regard to articulation: The benchmark qualification and the proposed qualification all point to the same articulation route, being Certificate V in rigging. All the qualifications indicate that Graduates have similar employment pathway as they all recognise the skills and knowledge required to work as a Riggers and Ropes men.

**NB:** Please see attached qualification comparability matrix.

***REVIEW PERIOD***

The qualification shall be reviewed every Five (5) years.