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SECTION A: QUALIFICATION DETAILS													
QUALIFICATION DEVELOPER(S)		College of Fire and Safety (COFS)											
TITLE	Diploma in Fire Safety										NCQF LEVEL	6	
FIELD	Health and Social Services		SUB-FIELD			Fire Safety			CREDIT VALUE	248			
New Qualification				<input checked="" type="checkbox"/>		Review of Existing Qualification							
SUB-FRAMEWORK		General Education			<input type="checkbox"/>		TVET		<input type="checkbox"/>		Higher Education		<input checked="" type="checkbox"/>
QUALIFICATION TYPE	Certificate	I	II	III	IV	V	Diploma		<input checked="" type="checkbox"/>	Bachelor or			
	Bachelor Honours			Post Graduate Certificate				Post Graduate Diploma					
	Masters				Doctorate/ PhD								
RATIONALE AND PURPOSE OF THE QUALIFICATION													
<p>RATIONALE:</p> <p>Fire Safety which is a branch of Health and Safety is currently found as course outside the shores of our Country. There is a definite need for our fire teams and the public to receive pertinent qualifications in this field of study. The President of Botswana always at every opportunity speaks of the economy being turned away from mineral based to a knowledge-based economy. Educating Fire teams and public on Fire Safety procedures can help reduce costs and death/ injuries accruing from fire incidents. This also fosters among employees an attitude and culture of fire prevention and safety which in turn helps reduces the potential of a fire outbreaks. No matter how small or large a company is, workers in</p>													

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all fields of industry face workplace fire risks that can threaten their life and properties. Providing awareness on fire safety procedures to the laymen as well as the fire service employees is just what the Country needs. Safety makes good business, even our tourists confidence can be boosted by the knowledge that this course aims to provide. The modules in the qualification such as fire safety Audits, Fire technology, Practical Firemanship, Discipline & Motivation, Fire safety/prevention, Disaster management, building control standards, International Fire codes among others will equip the learners to pursue a workplace environment safe from fire hazards and by extension the public at large.

The field of Fire Safety is still at infancy stages in Botswana and very crucial in developing countries such as Botswana. The activities of Fire safety professionals play a major role in the protection of different types of organisations all over the Country. Training is a key element in the prevention of workplace incidents. When educated on Fire safety procedures, participants will know how to prevent fire incidents in the workplace and will also learn how to respond efficiently when presented with a dangerous situation. Another benefit of Fire safety training at Diploma level is geared at providing the requisite leadership for fire teams which in turn augurs well for the overall safety of the public at large. The deployment of Fire safety officers in different organisations will ensure a reduction in accident and incident rates, which reflects favorably on the organization. Safety training is also important because it provides a way for companies to document proof that such training has occurred, protecting it from potential lawsuits involving injuries.

Vision 2036 recognizes education and skills development as the basis for human resource development. Hence the type of qualification on Fire Safety is aligned to the needs of the economy and business. The qualification is also supported by the recommendations of the Government Paper No. 37 of 2008: "Towards a Knowledge Society", Tertiary Education Policy, as approved by the National Assembly on the (2008, pg. 10). It also supports the skills training and development component of the Life Cycle Model of the NHRD Strategy (2009). Perusal of priority skills and employment article (Human Resource Development Council of Botswana [HRDC], 2018), specifically include Fire fighters with technical skills in First aid and fire rescue in the list of occupations in demand for Botswana (p.9).

The market need analysis which was conducted among potential trainees and industry stakeholders helped to identify the demand a qualification in Fire Safety hence this qualification. The responses from the survey were

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positive with aspiration and conviction that the qualification was contemporary, needed, and sustainable. The signification of the qualification was supported by the respondents during stakeholder consultation for assessment from the industry. The respondents acknowledged the need for a qualification in fire safety at a Diploma level as they are no such qualification in Botswana. The cited the fact that the qualification is important since it will equip workers on how to recognize fire hazards, conduct safety risk assessment, prevent a workplace fire, and respond to fire if it occurs

PURPOSE:

Purpose of the Qualification


This qualification is to equip students with skills and knowledge to:

- Assess current occupational health and safety management issues.
- Conduct a variety of safety and occupational health programmes in order to protect personnel, Equipment, production, and the workplace environment.
- Carry out fire risk assessment and risk supervision.
- Execute accidental and safety procedures in the workplace Supervise fire prevention activities.

ENTRY REQUIREMENTS (including access and inclusion)

- a) Certificate IV, NCQF level 4 or equivalent.
- b) Applicants who do not meet the above criteria but possess relevant industry experience may be considered through Recognition of Prior Learning (RPL) and Credit Accumulation and Transfer (CAT) policies for access. This consideration will be done following guidelines of the ETP which are aligned with BQA/ National policies.

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SECTION B		QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)		ASSESSMENT CRITERIA	
LO 1 Demonstrate general Practical Fireman ship procedures. 		1.1 Apply Fire safety policies and procedures to workplace. 1.2 Illustrate proper placement of Fire prevention & safety policies and procedures in the workplace. 1.3 Identify applicable Building Control regulations for specific industries 1.4 identify general Fire Equipment knowledge 1.5 Demonstrate the use of fire ground communication system. 1.6 Accurately detail basic fire drill procedure.	
LO 2: Apply principles of Occupational Fire Safety and fire prevention management		2.1 Suggest relevant principles for Occupational Fire Safety and fire prevention management. 2.2 Describe the role of management as a tool of fire prevention. 2.2 Engage employees in devising fire prevention measures in the organisation. 2.4 Realise the link between local fire service and workplace fire prevention team. 2.5 Detail workplace fire audits and Inspections Procedure.	

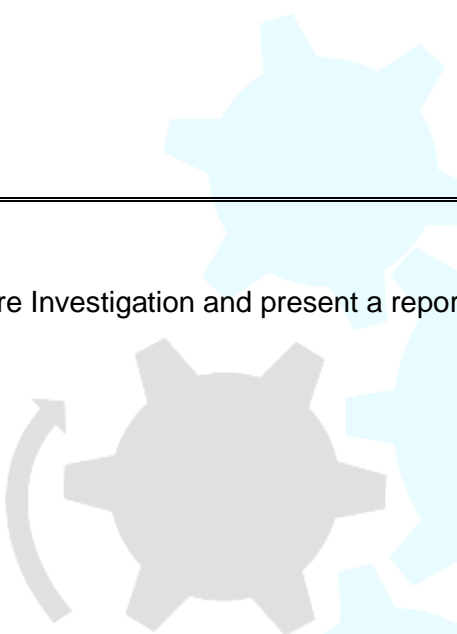
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LO 3 Identify and assess complex and unpredictable risks and hazards in the workplace and recommend remedial actions	3.1 Carry out and recommend procedures and process to determine and mitigate unpredictable risks and hazards in the workplace 3.2 Assess building design and installation to determine for possible fire hazards. 3.3 Assess faults in mixed fire installations and provide report for correction of faults.
LO4 Apply Fire Safety Leadership theories in the workplace.	4.1 Select and apply relevant standards for fire detection in the workplace. 4.2 Execute Fire crews' management strategies in firefighting. 4.3 Select and apply relevant management strategies for promoting discipline in the workplace 4.4 Apply relevant motivational theories in order to create a dedicated cadre of firefighter in the workplace. 4.5 Conduct the process of PTS Debriefing 4.6 Carry out Special Incident Command in order to instil discipline in the firefighters
LO 5 Demonstrate the use of Fire Technology such as sprinklers, alarms, and fire suppression systems	5.1 Execute and explain maintenance process of various fire equipment systematically. 5.2 State and demonstrate the use of sprinklers and alarms in fire protection and fire management

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	5.3 Demonstrate the use of sprinklers in a fire simulated incident
LO 6 Lead audit teams, compile up-to-standard audits reports and defend them before management	6.1 Build up and detail an internal audit team 6.2 Responsibly lead audit teams to produce up-to- date audit reports 6.3 Present and defend audit reports.
LO 7 Demonstrate the need of observing rules and regulations in a workplace.	7.1 Provide counsel on the dangers of possessing drugs/Alcohol beverages in a workplace 7.2 Determine problems associated with unauthorized possession of duplicate Keys/badges or cards. 7.3 Demonstrate to the workforce the necessity of observing rules and regulations in the workplace with respect to: Individual safety, Personal rights, and Fire team's general safety.
LO 8; Execute fire prevention procedures.	8.1 Design and demonstrate Fire risk management procedures as a fire prevention measure 8.2 Execute and apply Fire risk assessment procedures to work processes 8.3 Implement procedures for evacuation
LO 9 Execute Fire Safety Training.	9.1 Carry out need assessment on fire safety training 9.2 Design and develop training programme on fire safety

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	<p>9.3 Deliver professional (workplace) training on fire safety</p> <p>9.4 Evaluate and recommend improvements training on fire safety</p>
<p>LO 10</p> <p>Execute Fire Investigation and present a report.</p>	<p>10.1 Demonstrate various cause determination methods in fire investigation</p> <p>10.2 Demonstrate steps undertaken in fire scene reconstruction</p> <p>10.3 Demonstrate in a fire simulated environment the methods of scene preservation</p> <p>10.4 Write a detailed fire investigation report</p> <p>10.5 Present a fire incident report to an audience</p>
<p>LO 11</p> <p>Implement a positive health and safety culture in the workplace</p>	<p>11.1 Set up a Health and Safety structure at a workplace and give roles to such.</p> <p>11.2 Use relevant methods to identify the indicators of health and safety performance in a specific workplace.</p> <p>11.3 Measure fire and safety compliance against applicable rules and procedures for promoting a health and safety culture.</p> <p>11.4 Apply relevant models to identify and assess factors that promote negative work culture and</p>

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		recommend solutions for promoting positive work culture.			
SECTION C	QUALIFICATION STRUCTURE				
COMPONENT	TITLE	Credits Per Relevant NCQF Level			Total (Per Subject/ Course/ Module/ Units)
		Level [5]	Level [6]	Level [7]	
FUNDAMENTAL COMPONENT Subjects/ Courses/ Modules/Units	Introduction to office systems & procedures	10			10
	Human Resource Management	10			10
CORE COMPONENT Subjects/Courses/ Modules/Units	Fire Investigation		12		12
	Fire Safety Legislation		12		12
	Perusing Building plans		12		12
	Building Construction		12		12
	Fire Safety Principles and Practice		12		12

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	Fire Service Science		12		12
	Fire Safety Standards & Audit		12		12
	Fire Service Leadership		12		12
	Emergency Medical Care		12		12
	Disaster Management		12		12
	Incident Command		12		12
	Fire Suppression Technology		12		12
	Instructional techniques		12		12
	Project (Fire Prevention)		12		12
	Health and Safety Management		12		12
	Fire Prevention and Management		12		12
	Introduction to ICT			12	12
	Aviation Fire Safety		12		12

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ELECTIVE/ OPTIONAL COMPONENT <i>Subjects/Courses/ Modules/Units</i>	Fire Fighter 1			12	12
	Any course from other divisions			12	12



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SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL	
TOTAL CREDITS PER NCQF LEVEL	
NCQF Level	Credit Value
Level 5	20
Level 6	216
Level 7	12
TOTAL CREDITS	248
Rules of Combination: (Please Indicate combinations for the different constituent components of the qualification)	
<p>Credits Distribution</p> <p>Level 5 consists of 20 credits</p> <p>Level 6 consists of 216 credits</p> <p>Level 7 consists of 12 credits</p> <p>Total Credits: 248 Credits</p> <p>The credits combination for this qualification is from 20 of fundamental components, 216 core components and the remaining 12 is from the elective components where candidates would choose one (1) module.</p>	

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ASSESSMENT ARRANGEMENTS

For each module, an Assessment for learning (AFL) strategy will be used. This approach to teaching and learning creates feedback which is then used to improve students' performance. Students become more involved in the learning process and from this gain confidence in what they are expected to learn and to what standard. Criterion-referenced assessment will be preferred because it seeks to assess a learner's performance independent of the performance of others doing identical tasks and expresses selected criteria dichotomously. Norm-referenced assessment will be used to enable value judgements to be embedded in the learning encounter

MODERATION ARRANGEMENTS

For formative Assessment learners are continuously assessed through internal assessment which constitutes 50% of the overall grade for all modules.

For Summative assessment Integrated assessment, focusing on the achievement of the exit-level outcomes, will be done by means of a written examination amongst other forms of assessment at the end of every module. The summative assessment will constitute 50%.

Moderation: There will be internal and external moderation for the qualification. Assessors and moderators must be BQA registered and accredited. Both internal and external moderation will be done in-line with the moderation policy of the Institution

RECOGNITION OF PRIOR LEARNING

Candidates may submit evidence of prior learning and current competence and/or undergo appropriate forms of RPL assessment for the award of credits towards the qualification in accordance with applicable RPL policies and relevant national-level policy and legislative framework. Implementation of RPL shall also be

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consistent with requirements, if any, prescribed for the field or sub-field of study by relevant national, regional, or international professional

CREDIT ACCUMULATION AND TRANSFER

On application each module/course from a registered and accredited higher education institution is assessed per Botswana Qualifications Authority (BQA) requirements for credit accumulation and transfer (CAT) in terms of module content and outcomes, including critical cross field outcomes, topics, alignment, assessment NCQF levels, exit level outcomes and level descriptors to ascertain whether credits can/cannot be applied for such completed modules

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

LEARNING PATHWAYS

Horizontal Articulation:

Diploma in Health and Safety

Diploma in Fire and Hazard Management

Diploma in Fire Safety and Health Management

Vertical Articulation:

Bachelors in Fire Safety

Bachelor's in health and Safety

Bachelor of Science in Fire Safety and Investigation

Employment Pathways

The following are the employment pathways for a graduate who has successfully completed this qualification:

- Fire Safety supervisor or coordinator at a start-up.
- Safety supervisor or coordinator in the health and safety sectors

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- Working in Council/Mining Fire Department in a management position.
- Self-employed - Consultant embarking Fire health and safety operations.
- Fire Suppression technician potential

QUALIFICATION AWARD AND CERTIFICATION

Minimum standards of achievement for the award of the qualification

A candidate is required to achieve the stipulated total credits of 248 inclusive of the fundamental, core and elective components, to be awarded a Diploma in Fire Safety qualification.

Certification

certificate will be awarded to candidates meeting prescribed requirements of the Diploma in Fire Safety qualification

REGIONAL AND INTERNATIONAL COMPARABILITY

Fire Safety Qualification was benchmarked with similar qualifications, Institute of Fire Engineering (UK) and similar qualification International College of Fire and Safety (India). The content covered and the duration of the qualification is easily comparable with other similar qualifications. Similar qualification is offered at international institutions

Summary of Similarities and Differences Observed

This qualification compares well with The Institute of Fire Engineers (SA) as well as Institute of Fire Engineers (IFE-UK) as well as International College of Fire and Safety (Indian) in terms of basic content coverage such

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as Fire Prevention and Management, Fire Safety Principles and Practice Fire Service Science, Fire Safety Standards & Audit, Fire Investigation and Fire Safety Legislation.

The qualification is also similar with Institute of Fire Engineers (IFE-UK) in terms of duration which is 2year
The differences are in the terms of assessment the IFE qualifications in each unit are assessed by an examination of three hours. Examination papers comprise eight questions; candidates will need to select six questions from a choice of eight whereas this one is assessed on all modules

Comparability and articulation of the proposed qualification with the ones examined

Fire Safety Qualification was benchmarked with similar qualifications, Institute of Fire Engineering (UK) and similar qualification International College of Fire and Safety (India). The content covered and the duration of the qualification is easily comparable with other similar qualifications. Similar qualification is offered at international institutions

REVIEW PERIOD

This qualification will be reviewed in a period 5 years upon registration.