

DNOS.QC.01 FIRST DRAFT

DRAFT NATIONAL OCCUPATIONAL STANDARD FOR QUALITY CONTROLLER

Disclaimer: this document is for Sector Review and Commenting only. It should **not** be used, or referred to, as a National Occupational Standard

ZAMBIA QUALIFICATIONS AUTHORITY

APPROVING AUTHORITY

This National Occupational Standard has been prepared and published under the authority of the Zambia Qualifications Authority Board on [insert date when NOS was approved by the ZAQA Board].

ZAMBIA QUALIFICATIONS AUTHORITY

The Zambia Qualifications Authority Act No. 13 of 2011 was enacted by the Government of the Republic of Zambia to "provide for the development and implementation of a national qualifications framework; establish the Zambia Qualifications Authority; provide measures to ensure that standards and registered qualifications are internationally comparable; and provide for matters connected with, or incidental to the foregoing". Among other functions, ZAQA is responsible for determining national standards for any occupation, through various sector specific National Occupational Standards Development Teams (NOSDTs).

REVISION OF NATIONAL OCCUPATIONAL STANDARDS

National Occupational Standards shall be revised every after **5 years**, or whenever necessary, by the issue of either amendments or of revised editions. It is important that users of National Occupational Standards (NOS) should ascertain that they are in possession of the latest amendments or editions.

NOS DEVELOPMENT TEAM RESPONSIBLE

This National Occupational Standard was prepared by the Manufacturing National Occupational Standards Development Team, upon which the following organisations were represented:

- 1. Bigtree Beverages Ltd
- 2. Copperbelt University
- 3. Evelyn Hone College
- 4. Lafarge Cement (Z) Plc
- Lusaka Business and Technical College
- 6. Trade Kings Group
- 7. University of Zambia
- 8. Zambia Association of Manufacturers
- 9. Zambian Breweries Plc
- 10. Zambia Bureau of Standards
- 11. Zambia Qualifications Authority Secretariat.

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FOREWORD

The Zambia Qualifications Authority (ZAQA) is a statutory body under the Ministry of Higher Education established by ZAQA Act No. 13 of 2011 to "provide for the development and implementation of a national qualifications framework; provide measures to ensure that standards and registered qualifications are internationally comparable; and provide for matters connected with, or incidental to the foregoing".

Among other functions, ZAQA is responsible for "determining national standards for any occupation", through various sector specific National Occupational Standards Development Teams (NOSDTs) of experts composed of representation from appropriate authorities, government departments, industry, academia, regulators, consumer associations and non-governmental organisations, etc.

This National Occupational Standard (NOS) has been developed by the Manufacturing National Occupational Standards Development Team in accordance with the procedures and guidelines of ZAQA. All users should ensure that they have the latest edition of this publication as National Occupational Standards are revised from time to time.

This NOS shall be used by, among others, industry, employers, quality assurance bodies, awarding and professional bodies and education and training institutions, as a benchmark to identify training needs, develop job profiles/descriptions, develop curricula and learning programmes, in various sectors where the occupation exists. In the Manufacturing sector, demonstration of competence against this NOS may be required in order to run a business or practice a craft or profession.

JUSTIFICATION

The role of the Quality Controller is critical in the manufacturing sector to ensure that the products comply with specifications and are fit for their intended purpose. Consequences of not having a Quality Controller include product failing to meet customer and regulatory requirements. Without a Quality Controller, the Manufacturing sector may lose substantial amount of financial resources through reworks, recalls and approved disposals of deviating products.

This National Occupational Standard highlights core knowledge, skills, competences and personal attributes that Quality Controllers must possess to be successful in their iobs.

ACRONYMS AND ABBREVIATIONS

CS Core Skill

DNOS Draft National Occupational Standard

EIZ Engineering Institution of Zambia

HPCZ Health Professions Council of Zambia

NOS National Occupational Standard

National Occupational Standards Development Team NOSDT

OK Organisational Knowledge

PC Performance Criteria

PS **Professional Skill**

Quality Controller QC

RK Regulatory Knowledge

Recognition of Prior Learning RPL

Technical Knowledge ΤK

ZAQA Zambia Qualifications Authority

Zambia Qualifications Framework ZQF

ORAFILEORS

GLOSSARY OF TERMS

For the purposes of this NOS, the following terms and definitions shall apply:

Core Skills/Generic Skills: are a group of skills that are key to learning and working in today's world. These skills are typically needed in any work environment. In the context of the NOS, these include communication related skills that are applicable to most job roles.

Function: is an activity necessary for achieving the key purpose of the sector, occupation, or area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of NOS.

Job Title: defines a unique set of functions that together form a unique employment opportunity in an organisation.

Knowledge and Understanding: are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.

National Occupational Standards (NOS): are statements of the standards of performance individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding. They are precise descriptions of what an individual is expected to be able to do in his/her work role.

National Occupational Standards (NOS) Code: is a unique reference code that identifies a NOS.

National Occupational Standards Development Team (NOSDT): means an established group of national stakeholders/experts responsible for the development of National Occupational Standards within a specific economic sector or occupation.

Occupation: is a set of job roles, which perform similar/related set of functions in an industry.

Organisational Context: includes the way the organisation is structured and how it operates, including the extent of operative knowledge that managers have in their relevant areas of responsibility.

Performance Criteria: are statements that together specify the standard of performance required when carrying out a task.

Scope: is the set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on the quality of performance required.

Sector: is a conglomeration of different business operations having similar businesses and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.

Sub Sector: is derived from a further breakdown based on the characteristics and interests of its components.

.mbent should to committee the committee of the committee Technical Knowledge: is the specific knowledge needed to accomplish specific

Unit Title: gives a clear overall statement about what the incumbent should be able

1. OVERVIEW

This is an introductory section providing a brief summary and specific information or commentary about the content of the NOS and the targeted sector and occupation to help the user judge whether it is relevant to them.

NOO O . I	NO0 00 04		
NOS Code	NOS.QC.01		
Occupation	Quality Management/Control		
Job Title	Quality Controller		
JOD TILLE	Quality Controller		
Job Description	 Quality Controller in a manufacturing sector ensures: That production outputs meet desired quality specifications. The Assessment of all raw materials and inputs to meet product specifications. Implementation of latest Quality Management Systems, as applicable. 		
Job Purpose	Quality Controller ensures that there is consistency in meeting specified quality outputs from the production processes.		
ZQF Level	6		
Sector	Manufacturing		
Sub sector	All subsectors of the Manufacturing sector		
Other Economic Sector(s)	Construction		
in which the Occupation is	Mining		
Practiced	Health		
	Tourism and hospitality, etc.		
Other Similar Jobs that	Quality Manager		
can be performed by the	Quality Specialist		
Quality Controller	Quality Inspector		
Minimum Educational Job	Diploma in Science Laboratory Technology, or		
Entry Qualification(s)	equivalent.		
Practicing License	HPCZ license, as applicable.		
Requirements (if any)	 Membership with the Engineering Institution of Zambia (EIZ) and Practicing Licence from the Engineering Registration Board (EngRB), as applicable. 		
Training/RPL	 Use of ICTs (Internet, Microsoft word, Excel, PowerPoint, Email, Computer Software and Hardware necessary for the job, etc.) 5S Workplace Organisation Method 		
Minimum Job Entry Age	21		
Prior Experience	At least 2 years of relevant experience		
(Suggested)			
Performance Criteria	As described in the Units under Section 4		

2. SCOPE

This National Occupational Standard specifies the fundamental knowledge and understanding, skills and competences that the Quality Controllers must possess to be successful in their jobs.

3. PERSONAL ATTRIBUTES (VALUES, ETHICS AND ATTITUDES)

This job requires an individual to possess:

- Honesty, integrity and capacity to diplomatically deal with different situations
- Ability to utilise computer programmes extensively.
- Analytical ability.
- · Communication skills and interpersonal skills.
- Mental alertness, endurance and judgement.
- Problem solving skills.
- Precision and accuracy.
- Attention to detail.
- Good numeracy capabilities.
- Good understanding of the principles of good manufacturing practices.
- Ability to maintain confidentiality
- Willingness to learn new things

4. UNITS AND ELEMENTS

This National Occupational Standard is divided into three (3) units representing the tasks that a jobholder should undertake in his/her day to day work. Each unit is further broken down into elements depicting the number of activities to be carried out for the successful execution of a particular task.

UNIT 1 [This unit is about carrying out process quality control]

Unit No.	01			
Unit Title	Carry out Process Quality Control			
Description	This unit is about demonstrating competence to carry out process			
	quality control			
Scope	This unit covers the following:			
	 Process control through laboratory analysis 			
	Laboratory equipment			
	Quality assurance			
Performance Crit	eria (PC) w.r.t. the Scope			
Element	Performance Criteria (PC)			
Process control	To be competent, the individual must be able to:			
	PC1. Carry out sampling out as per documented methods			
	PC2. Identify, verify and handle samples so as retain sample			
	identity and integrity as per documented procedure.			
	PC3. Carry out sample preparation and dispatch, if necessary, as			
	per documented method.			
	PC4. Prepare appropriate apparatus, equipment and reagents are			
	as per documented procedure.			
	PC5. Perform analysis of samples using fundamental laboratory			
	techniques and practices while ensuring adherence to statistical			
	quality control procedures.			
	PC6. Generate accurate results at specified times.			
	PC7. Record and report results as per standard procedure.			
	PC8. Accurately identify process/products deviations and promptly			
	report them for onward action.			
Labaratana	PC9. Adhere to appropriate deviation management procedure.			
Laboratory	To be competent, the individual must be able to:			
equipment	PC10. Perform equipment maintenance and calibration according			
	to documented procedures.			
	PC11. Adhere to preventative maintenance schedules and equipment calibration frequencies.			
	PC12. Retain and update records of preventive maintenance and			
	calibration of equipment in the working area.			
	PC13. Adhere to plans in place to avoid accidental use of			
	decommissioned equipment.			
Quality	To be competent, the individual must be able to:			
assurance	PC14. Conduct required and requested quality audits, completing			
accuration	the appropriate documentation and communicating the audit			
	results.			
	PC15. Conduct a gap analysis to identify problems or training			
	needs and communicating these to Management.			
	PC16. Regularly and timely communicate the quality performance			
	to all key stakeholders, both internal and external as appropriate.			
	PC17. Where required, initiate corrective actions coming out of the			
	quality audits in areas that impact the laboratory.			

	PC18. Carry out statistical quality control analyses in support of				
	the evaluation of continuous improvement opportunities through				
	trending or charting of specific quality outputs.				
	PC19. Implement applicable laboratory proficiency testing				
	schemes or inter-laboratory testing programmes.				
	Understanding (K)				
	The individual on the job must demonstrate knowledge and				
al Context	understanding of:				
(Knowledge	OK1. Process knowledge of the entire manufacturing plant				
of the	OK2. Product specifications				
company/	OK3. Applicable regulations and industry standards				
organisation	OK4. Company policies and standard operations procedures				
and its	OK5. Relevant management systems such as food safety,				
processes)	laboratory management systems, etc.				
	OK6. Company vision, mission, and values				
	OK7. Customer specific requirements mandated as part of the				
	work				
B. Technical	The individual on the job must demonstrate knowledge and				
Knowledge	understanding of:				
	TK1. Chemical preparation and handling. Basic chemistry				
	TK2. Good laboratory practises				
	TK3. Basic instrumentation and troubleshooting				
	TK4. Appropriate laboratory techniques				
	TK5. Problem solving techniques such as DMAIC, FEMA				
	TK6. Basic concepts of statistics				
	TK7. Critical quality parameters and their values and tolerance				
	limits.				
	TK8. Quality acceptance criteria				
	TK9. Understanding or deriving of calculations, as applicable				
	TK10 Chemical compatibility matrix				
C. Regulatory	TK11. Material safety data sheets				
c. Regulatory	The individual on the job needs to know and understand:				
(Knowledge	RK1. Factories Act and regulations RK2. Metrology Act and regulations				
of Rules and	RK3. Food Safety Act and regulations				
Regulations)	RK4. Compulsory Standards Act and regulations				
Regulations	RK5. Environmental Management Act and regulations				
	RK6. Competition and Consumer Protection Act and regulations				
	RK7. Occupational Health and Safety Act and regulations				
	RK8. Public Health Act and regulations, as applicable				
Skills (S)	Tartor i ubilo i localiti / localiti regulations, as applicable				
A. Core Skills/	Reading Skills				
Generic	The individual on the job must be able to:				
Skills	CS1. Read and interpret chemical symbols and measurement				
OAIIIO	results				
	CS2. Read and interpret laboratory test reports.				
	CS3. Read test methods and laboratory work instructions.				
	CS4. Read quality control charts				
	CS5. Read audit reports				
	CS6. Read specifications for raw, materials, final product and				
	packaging				
	paonaging				

CS7. Read process critical parameters. CS8. Read numbers CS9. Read material safety data sheets Writing Skills The individual on the job must be able to: CS9. Prepare test reports CS10. Prepare audit reports CS11. Formulate laboratory work instructions Oral Communication (Listening and Speaking skills) The individual on the job must be able to: CS12. Communicate effectively and fluently on matters related to quality control, in at least, English. CS13. Expertly communicate laboratory test results.

B. Professional Skills

Plan and Organise

The individual on the job must be able to:

PS1. Execute quality control tasks in an organised manner PS2. Organise activities in the laboratory

Judgment and Critical Thinking

The individual on the job must be able to:

PS3. Evaluate the criticality of the quality defects and make informed decisions based on observations and experience PS4. Judge the performance of the quality control section in rendering reliable and timely services to the production process

Desire to Learn and Take Initiatives

The individual on the job must be able to:

PS5. Keep up-to-date with latest trends and changes in industry and the profession

PS6. Be flexible enough to adapt to emerging situations

PS7. Be resilient enough to execute above expectation in midst of quality challenges

PS8. Learn new test methods such as rapid testing kits

Problem Solving and Decision Making

The individual on the job must be able to:

PS9. Support production teams in problem solving, providing specialist assistance and techniques.

PS10. Provide input in addressing challenges within the laboratory

UNIT 2 [This unit is about adhering to environmental, health, safety and security requirements at the workplace].

Unit No.	02					
Unit Title	Adherence to Environmental, Health, Safety and Security					
	requirements at the Workplace					
Description	This unit is about demonstrating competence to adhere to					
	environmental, health, safety and security at the workplace					
Scope	This unit covers the following:					
	Maintain a clean and efficient workplaceInspect safety devices for adequacy and suitability					
	Maintain environmental, health and safety procedures at the					
	workplace					
	Restrict access to critical areas of operations					
Performance Crit	eria (PC) w.r.t. the Scope					
Element	Performance Criteria (PC)					
Maintain a clean	To be competent, the individual must be able to:					
and efficient	PC1. Adhere to the available safety and health policy.					
workplace	PC2. Identify unsafe conditions and work practices and promptly					
	report for action.					
	PC3. Handle, store and dispose equipment and materials					
	including reagents as per documented procedure.					
	PC4. Correctly identify hazardous substances with their					
	appropriate storage and handling conditions per documented					
	procedure.					
	PC5. Adhere to documented lab safety rules, guides and					
	practices.					
	PC6. Apply 5S or other good housekeeping practices at the					
	workplace					
	PC7. Display the appropriate signage for the work being					
	conducted					
	PC8. Promptly dispose of waste safely and correctly in a					
	designated area					
	PC9. Adhere to chemical compatibility matrix is for chemical					
	handling and storage.					
	PC10. Carry out periodic walk-through to keep work area free from					
Inopost sofety	hazards and obstructions, if assigned					
Inspect safety devices for	To be competent, the individual must be able to: PC11. Correctly identify applicable safety devices at the					
adequacy and						
suitability	workplace.					
Juliability	PC12. Appropriately identify safety devices by use of signage PC13. Effectively use the safety devices.					
	PC14. Understand the contents of material safety data sheets and					
	ensure that the safety data sheets are available for all chemicals					
	at the workplace.					
Maintain	To be competent, the individual must be able to:					
environmental,	PC15. Comply with health and safety related instructions					
health and	applicable to the workplace.					
safety	PC16. Use and maintain personal protective equipment as per					
	documented procedure.					

procedures at	PC17. Carry out own activities in line with approved guidelines		
the workplace	and procedures.		
	PC18. Adhere to personal hygiene practices at the workplace.		
	PC19. Identify and report any machinery and equipment		
	malfunctions that cannot be rectified.		
	PC20. Seek clarifications, from supervisors or other authorized		
	personnel in case of perceived risks.		
	PC21. Participate in mock drills/ evacuation procedures organized.		
	at the workplace.		
	PC22. Undertake first aid, fire-fighting and emergency response		
	training, if asked to do so.		
	PC23. Conduct hazard analysis at the workplace.		
	PC24. Adhere to organization procedures for shutdown and		
	evacuation when required.		
	PC25. Keep good stock of personal protective equipment for use		
	at the workplace.		
Restrict access	To be competent, the individual must be able to:		
to critical areas	PC26. Monitor the workplace and work processes for potential		
of operations	risks and threats.		
•	PC27. Adhere to available access controls especially in the		
	laboratory working area.		
Knowledge and U	Jnderstanding (K)		
	The individual on the job must be able demonstrate knowledge and		
	understanding of:		
(Knowledge	OK1. Potential hazards, risks and threats based on nature of		
of the	operation		
company/	OK2. The layout of the plant and details of emergency exits,		
organisation	escape routes, emergency equipment and assembly points		
and its	OK3. Applicable regulations and industry standards		
processes)	OK4. Company policies on health, safety and security		
	OK5. Relevant management systems such as occupational health		
	and safety		
	OK6. The existing site specific emergency plans		
B. Technical	The individual on the job must be able demonstrate knowledge and		
Knowledge	understanding of:		
	TK1. Risks associated with occupational health and safety.		
	TK2. Types of PPEs and their method of use		
	TK3. Identification, handling and storage of hazardous substances		
	TK4. Existing environmental guidelines on proper disposal of		
	waste and by-products.		
	TK5. Signage related to health and safety and their meaning		
	TK6. Importance of sound health, hygiene and good habits		
C. Regulatory	The individual on the job must be able demonstrate knowledge and		
	understanding of:		
(Knowledge	RK1. Factories Act		
of Rules and	RK2. Environmental Management Act		
Regulations)	RK3. Occupational Health and Safety Act		
	RK4. Workers' Compensation Act		

Skills (S)	
A. Core Skills/	Reading Skills
Generic	The individual on the job must be able to:
Skills	CS1. Read and interpret symbols and other information
	documents related to environmental management, occupational
	health and safety
	Writing Skills
	The individual on the job must be able to:
	CS2. Document and report clearly any environmental, health and
	safety related incidents/accidents, in at least, English
	Oral Communication (Listening and Speaking skills)
	The individual on the job must be able to:
	CS3. Communicate effectively and fluently on environmental,
	health and safety incidents/accidents, in at least, English
B. Professional	Plan and Organise
Skills	The individual on the job must be able to:
	PS1. Execute tasks in an organised manner
	PS2. Work with supervisors/ team mates to keep work area free
	from potential hazards
	Judgment and Critical Thinking
	The individual on the job must be able to:
	PS3. Make appropriate and timely decisions in responding to
_	emergencies/accidents in line with organisational guidelines
	Desire to Learn and Take Initiatives
	The individual on the job must be able to:
	PS4. Keep up-to-date with latest trends and changes in industry
	and the profession
	PS5. Be flexible enough to adapt to emerging situations
	PS6. Be resilient enough to execute as expected in midst of
	challenges
	Problem Solving and Decision Making
	The individual on the job must be able to:
	PS7. Support emergency response teams in problem solving
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UNIT 3 [This unit is about effectively managing personnel and team building]

Unit No.	03			
Unit Title	Manging personnel and team building			
Description	This unit is about demonstrating competence to effectively manage			
	personnel and build teams.			
Scope	This unit covers the following:			
	Communicate effectively at the workplace			
	 Carry out basic management functions of planning, organising, 			
	staffing, leading and controlling			
	Contribute to team and self-development			
Performance Crit	eria (PC) w.r.t. the Scope			
Element	Performance Criteria (PC)			
Communicate	To be competent, the individual must be able to:			
effectively at the	PC1. Describe the importance of team based activities and clearly			
workplace	highlight the key responsibilities they have as a team member			
•	PC2. Able to identify internal and external stakeholders and their			
	expectations.			
	PC3. Apply available and appropriate feedback mechanisms.			
	PC4. Understand the communication channels and the associated			
	hierarchies			
Providing	To be competent, the individual must be able to:			
leadership	PC5. Decide on the plans and take necessary steps to achieve			
through effective				
supervision	PC6. Delegate tasks and allocate resources to individuals			
PC7. Determine the manpower requirements in the working and decide their placement.				
	goals.			
	PC9. Regularly monitor the progress of work in line with agreed			
	objectives or targets.			
	PC10. In collaboration with HR personnel, be able to conduct			
	training and awareness on code of conduct and company's			
	grievance procedure.			
	PC11. Use interpersonal skills to motivate the staff to enhance			
	performance in line with set targets			
Contribute to	To be competent, the individual must be able to:			
team and self-	PC5. Describe self-management practices and how they apply to			
development	overall team activities in the workplace			
	PC6. Describe the importance of initiating feedback, as a team			
member, towards the overall team development.				
	PC7. Describe the importance of sharing knowledge and			
	experiences for the sake of team development.			
	PC8. Conduct gap analysis to determine training needs			
	Understanding (K)			
	The individual on the job must be able demonstrate knowledge and			
al Context	understanding of:			
(Knowledge	OK1. Company communication procedures			
of the	OK2. Modes of communication and their associated restrictions			
company/	OK3. Company code of ethics.			

organisation	OK4. Company policy on staff welfare				
and its					
processes)					
B. Technical	The individual on the job must be able demonstrate knowledge and				
Knowledge	understanding of:				
	TK1. Basics modes and channels of communication				
	TK2. Technical report writing				
	TK3. Cross-cutting issues such as gender matters and human				
	rights, etc.				
	TK4. Expectations of internal and external stakeholders				
C. Regulatory	The individual on the job must be able demonstrate knowledge and				
	understanding of:				
(Knowledge	RK1. Industrial and Labour Relations Act				
of Rules and	RK2. Employment Code Act				
Regulations)	RK3. Occupational Health and Safety Act				
rtogulationo,	RK4. Workers' Compensation Act				
	Titte. Workers Compensation / tot				
Skills (S)					
A. Core Skills/	Reading Skills				
Generic	The individual on the job must be able to:				
Skills	CS1. Read and interpret information related to company				
OKIIIS	communication policy/procedures.				
	Writing Skills				
	The individual on the job must be able to:				
	CS2. Document and report on relevant information, in at least,				
	English.				
	Oral Communication (Listening and Speaking skills)				
	The individual on the job must be able to:				
D. D (CS3. Communicate effectively to the team(s), in at least, English.				
B. Professional	Plan and Organise				
Skills	The individual on the job must be able to:				
	PS1. Plan and organise what, when, who, and how communicate				
	based on company communication guidelines.				
	Judgment and Critical Thinking				
	The individual on the job must be able to:				
	PS2. Through consultations and engagements with other team				
	members, arrive at proper decisions according to various				
	situations.				
	Desire to Learn and Take Initiatives				
The individual on the job must be able to: PS3. Keep up-to-date with latest trends and changes in					
				and the profession	
	PS4. Be flexible enough to adapt to emerging situations				
	PS5. Be resilient enough to execute above expectation in midst of				
	quality challenges.				
	Problem Solving and Decision Making				
	The individual on the job must be able to:				
	PS6. Active participation in scheduled team activities rendering				
	contributions in problem solving and overall decisions of the team				
	-				

5. EQUIPMENT, TOOLS AND CONSUMABLE MATERIALS

These include, but not limited to:

- Computer with appropriate software and hardware
- Certified laboratory equipment such as pH meters, analytical balance, etc.
- Certified glass ware and other apparatus
- Certified/approved chemicals
- Certified reference materials
- Fume hold for chemical preparation
- Applicable PPE
- Approved manuals/standard operating procedures.

6. DILEMMAS/CHALLENGES AND COMPLEXITIES FOR A JOB HOLDER

Dilemmas associated with the job of a Quality Controller include:

- Pressure from supervisors and clients
- Shift work
- Handling of hazardous and corrosive chemicals
- Long periods of standing especially when conducting laboratory bench works
- In a quest to uphold quality specifications it may require making difficult decisions that may not be easily acceptable to process owners and management in some cases
- Handling high volumes of work.

6.1 Alternative Choices (Solutions) to Dilemmas and Complexities

- Provide appropriate PPE for all tasks
- Installation of appropriate chemical storage cabinets
- Use of safety posters/warning signs and training
- Conduct ergonometric studies
- Put fatigue management plans in place
- Structured stakeholder engagement for mutual understanding
- Proper planning and organisation of day to day tasks.

7. WORKING CONDITIONS/ENVIRONMENT

- Working in a laboratory set up
- Working in confined spaces and at heights
- Working in areas that are wet, noisy, cold or hot
- May require longer standing periods.
- May involve shift work.
- May involve some exposure to chemical fumes.

PARTIES INVOLVED/INTERACTING WITH THE JOB HOLDER OR 8. **TRAINEE**

8.1 Internal/Within the Organisation

Supervisors, trainers, safety, health and environment team members, other production colleagues, etc.

8.2 External/Outside the Organisation

Government regulators, trainers, suppliers of equipment/tools/consumables, fellow Quality Controllers from other companies, labour unions/occupational health and safety associations, etc.

9. PHYSICAL DEMANDS ON THE BODY

- · Able to stand for longer periods of time, if necessary
- Able to perform some manual handling
- Generally requires one to be medically fit in line with occupational health Janus and Alexander Alexan clearance requirements
 - Be able to distinguish colours, odours and textures.

ANNEX A Criteria for Assessments based on this NOS

A.1 Guidelines for Assessment

A.1.1 Criteria for assessment for curricula and learning programmes based on this NOS will be created by curricula and programmes developers. Each Performance Criteria (PC) will be assigned marks proportional to its importance in the NOS. Curricula and programmes developers will also lay down proportion of marks for theory and practical skills for each performance criteria, giving more weight to practical skills.

There shall be allocated the 'Total Mark', which will be the sum of all marks in each Unit, distributed across the number of PCs in that particular Unit. The 'out of' mark will be the mark allocated to each PC, which will be shared between theory and skills practical assessments.

A.1.2 Individual awarding/assessment bodies or institutions and other users of the NOS will create unique question papers for the theory part and evaluations for skill practical part for their respective candidates.

ANNEX B NOS Version Control

This Annex gives details necessary for the tracking of the NOS versions based on the number of revisions.

	NOS Code	DNOS.QC.01		
	ZQF Level	6	Version Number	01
	Sector	Manufacturing	Date of Approval	
	Sub Sector	All subsectors in the Manufacturing sector	Date of Last Review	N/A
	Occupation	Quality Management/ Control	Date of Next Review	
ORAK	OK			