



NATIONAL BOARD FOR TECHNICAL EDUCATION

PLOT B BIDA ROAD, P.M.B. 2239, KADUNA, NIGERIA

IN COLLABORATION WITH



NATIONAL OCCUPATIONAL STANDARDS (NOS)

FUMIGATION AND PHYTOSANITARY CERTIFICATION LEVELS 1 - 5

JUNE, 2026



**RENEWED HOPE
IN AGRICULTURE**

PREFACE

The development of the National Occupational Standards (NOS) for the agricultural sector marks another important milestone in Nigeria's commitment to strengthening Technical and Vocational Education and Training (TVET), promoting skills development, and improving workforce productivity. These standards have been developed to provide nationally recognized benchmarks for the knowledge, skills, and competencies required for effective performance in various agricultural occupations. The National Occupational Standards were developed through a collaborative process involving industry experts, employers, professional bodies, regulatory agencies, training institutions, development partners, and other key stakeholders. Their contributions ensured that the standards reflect current industry practices, emerging technologies, and the competency requirements of the modern agricultural sector. I wish to express my sincere appreciation to the Honourable Minister of Education for providing the policy direction that made this initiative possible. I also acknowledge the support of the Honourable Minister of Agriculture and Food Security and the Honourable Minister of Livestock Development for their commitment to advancing agricultural skills development in Nigeria. I extend my profound gratitude to the Tertiary Education Trust Fund (TETFund) for its intervention and support, which facilitated the development of these National Occupational Standards. I also appreciate the invaluable contributions of the Sector Skills Council for Agriculture (SSC4A), members of the Implementation Committee, resource persons, industry practitioners, employers, professional associations, regulatory agencies, the French Embassy in Nigeria, development partners, and all stakeholders who contributed their expertise throughout the development process. These National Occupational Standards will serve as an important reference for competency-based training, assessment, certification, apprenticeship, Recognition of Prior Learning (RPL), and workforce development within the agricultural sector. It is my expectation that all implementing institutions and industry partners will effectively utilize these standards to enhance the quality, relevance, and competitiveness of agricultural skills development in Nigeria. I commend all stakeholders for their dedication and commitment to this important national assignment and look forward to the successful implementation of these National Occupational Standards for the benefit of the agricultural sector and the nation as a whole.

Professor Idris M. Bugaje, FNSE
Chairman, Implementation Committee

EXECUTIVE SECRETARY

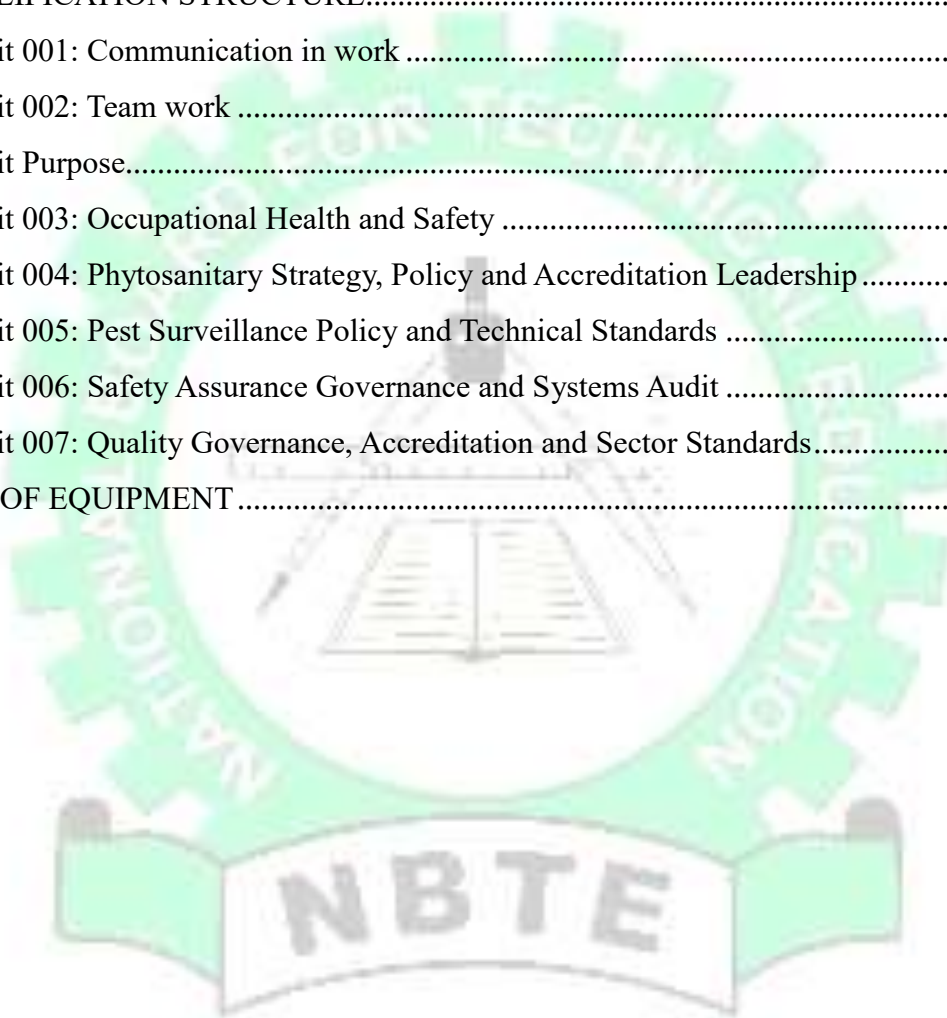
National Board for Technical Education (NBTE), Kaduna

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NATIONAL SKILLS QUALIFICATIONS
(NSQ)

FUMIGATION AND PHYTOSANITARY CERTIFICATION

LEVEL 1

JUNE, 2026



GENERAL INFORMATION

OVERVIEW

This qualification is designed for individuals who are interested in pursuing a career in Fumigation and Phytosanitary Certification for the award of National Skills Qualification (NSQ)/ National Occupational Standards (NOS). It is aimed at producing craftsmen in Fumigation and Phytosanitary Certification, NSQ Level 1-5.

This qualification is subject to review as and when the need arises.

QUALIFICATION PURPOSE

This qualification is targeted at developing competence in Fumigation and Phytosanitary Certification. This is focused on knowledge, practical skills, communication skills, health and safety, teamwork, and workplace experience.

QUALIFICATION REQUIREMENTS

All candidates must:

Be at least sixteen (16) years of age;

Be medically fit;

Be mentally fit;

Possess a valid National Identification.

- At least twelve (12) years of age
- Medically fit
- Mentally fit (Mental alertness)
- A Nigerian citizen
- Other nationals should present International passport, residence permit or Parent work permit.
- Vetted
- Interested in agricultural production and related support operations;
- Able to carry out simple practical tasks under supervision.

QUALIFICATION OBJECTIVES

At the end of this qualification, the learner should be able to:

- i. Communicate effectively in the workplace.
- ii. Develop team spirit and maintain positive work relationships with colleagues.
- iii. Comply with health and safety requirements associated with Fumigation and Phytosanitary System.
- iv. Assist in fumigation operations.
- v. Handle personal and workplace hygiene during fumigation.
- vi. Recognize common storage pests and signs of infestation.
- vii. Identify fumigation equipment and safety system during/after fumigation.

NATIONAL SKILLS QUALIFICATION (NOS) TABLE)

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours	Practical Learning Hours
1	AGR/FPS/001/L1	Communication in work place	2	20	115
2	AGR/FPS/002/L1	Team work	2	20	115
3	AGR/FPS/003/L1	Occupational Health and Safety	2	20	115
4	AGR/FPS/004/L1	Basics of Fumigation	3	30	172
5	AGR/FPS/005/L1	Fundamentals of Phytosanitary Safety	3	30	115
6	AGR/FPS/006/L1	Storage Pest Identification	3	30	115
7	AGR/FPS/007/L1	Fumigation Equipment and Safety System I	3	30	175
8	AGR/FPS/008/L1	Quality, Compliance and Record-Keeping	3	30	170
TOTAL			21	210	1092

QUALIFICATION STRUCTURE

This qualification comprises total of eight (8) mandatory units with 21 Credit Value and 210 Guided learning hours across the full qualification. One (1) Credit is equivalent to ten (10) Guided Learning Hours (GLH). Guided Learning Hours are the time a learner spends in the classroom, workshop and laboratory of the Skills Training Centre (STC), being taught, instructed, supervised or assessed by a qualified trainer, facilitator or assessor.

In addition to the GLH, the qualification requires at least twice or thrice the GLH as practice time. Practice time is the time a learner is expected to spend applying the skills of each unit in a real workplace environment, carrying out the same tasks repeatedly until performance becomes consistent, accurate and habitual to the standard the qualification demands. It is undertaken under the guidance of a workplace supervisor, recorded in the learner's logbook and duly endorsed. Practice time is the principal setting where core assessment is conducted. It is through repeated performance in the workplace that a learner's achievement of the Learning Outcomes and Performance Criteria is judged and evidenced. Practice time is an additional requirement to GLH and does not replace them.

To achieve this qualification, the learner must complete all mandatory units, undertake the prescribed practice time, and accumulate the minimum credit value

approved by NBTE. Credit is awarded only when a learner has been assessed as competent against all Learning Outcomes and Performance Criteria of a unit.



GENERAL GUIDE

Unit title	Provides a clear explanation of the content of the unit.
Unit number	The unique number assigned to the unit.
Unit reference	The unique reference number given to each unit at qualification approval by NBTE
Unit level	Denotes the level of the unit within the National Vocational Qualification framework NSQF.
Unit credit value	The value that has been given to the unit based on the expected learning time for an average learner. 1 credit = 10 learning hours
Unit aim	Provides a brief outline of the unit content.
Learning outcome	A statement of what a learner will know, understand or be able to do, as a result of a process of learning.
Assessment criteria	A description of the requirements a learner must achieve to demonstrate that a learning outcome has been met.
Unit assessment guidance	Any additional guidance provided to support the assessment of the unit.
Unit guided learning hours	The average number of hours of supervised or directed study time or assessment required to achieve a qualification or unit of a qualification.

UNIT 001: COMMUNICATION IN WORK PLACE

Unit reference number: AGR/FPS/001/L1

NSQ Level: 1

Credit value: 2

Guided learning hours: 20

Practical Time: 115

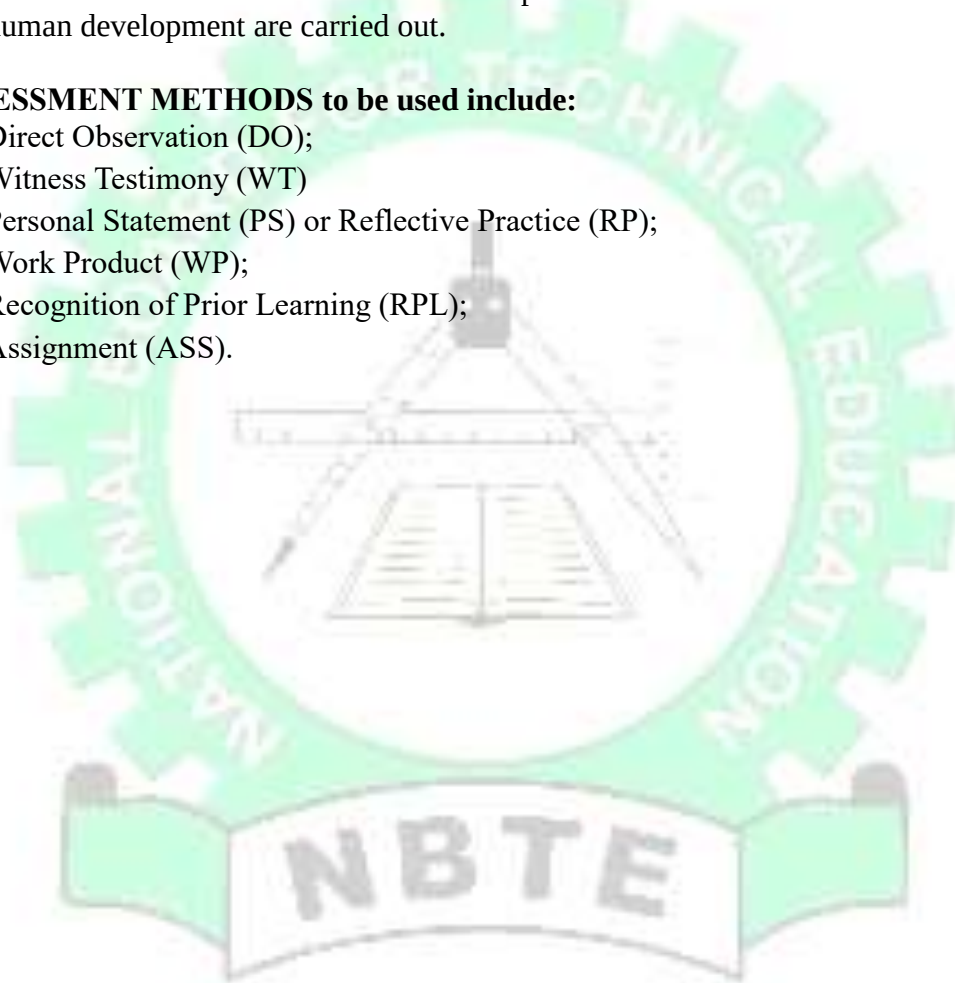
UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills to communicate effectively with team members

UNIT ASSESSMENT REQUIREMENTS/EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Witness Testimony (WT)
3. Personal Statement (PS) or Reflective Practice (RP);
4. Work Product (WP);
5. Recognition of Prior Learning (RPL);
6. Assignment (ASS).



Unit 001: Communication in work place

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Explain Communication in the Workplace.:	1.1	Define Communication		
	1.2	Explain types of communication in work place: • Verbal • Non-verbal • Digital etc.		
	1.3	Explain the uses of communication in work place		
	1.4	Explain the importance of communication in the work place		
	1.5	Identify the verbal communications in the work place		
	1.6	Identify the non-verbal communication in the work place		
	1.7	Identify the digital communication in the work place		
LO 2: Follow Communication System in a Workplace Environment.:	2.1	Use a simple verbal means to pass on necessary information in the workplace environment		
	2.2	Use non-verbal means to pass on necessary information in the workplace environment		
	2.3	Apply symbols and signs appropriately in the work environment: • Facial expression • Eye signals • Posture etc.		
LO 3: Recognize Information Sources in a Work Environment.:	3.1	Identify the sources of the information in work environment		
	3.2	Relate appropriately with the sources of information in work environment		
	3.3	Use the various information flow systems in a work environment		
	3.4	Use information sources to address challenges in a work environment		

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:



UNIT 002: TEAM WORK

Unit Reference Number: AGR/FPS/002/L1

NSQ Level: 1

Credit Value: 2

Guided Learning Hours: 20

Practical Time: 115

UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills on how to work effectively among team members in laboratories/store facilities.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Questions and Answers (QA);
4. Witness Testimony (WT);
5. Assignment (ASS);
6. Work Products (WP).



Unit 002: Team work

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Identify importance of team work in the work environment.:	1.1	Define teamwork		
	1.2	Define group work		
	1.3	Differentiate between group work and teamwork		
	1.4	Explain the importance of team work in the work environment		
	1.5	Explain effectiveness of individuals contribution in teamwork success		
LO 2: Recognize team roles and responsibilities in work environment.:	2.1	Explain own role and responsibilities in teamwork		
	2.2	Describe the roles of other team members in teamwork		
	2.3	Use verbal and non-verbal communications in teamwork		
	2.4	Explain roles of specific tasks in work environment		
	2.5	Maintain professional etiquette on team interactions		
LO 3: Follow team instruction in a work environment.:	3.1	Respond to verbal instructions from team leader		
	3.2	Respond to written instructions from team leader		
	3.3	Carry out assigned duties within given timeline from the team leader		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled)			Date:	
EQA Signature (if sampled)			Date:	

UNIT 003: OCCUPATIONAL HEALTH AND SAFETY

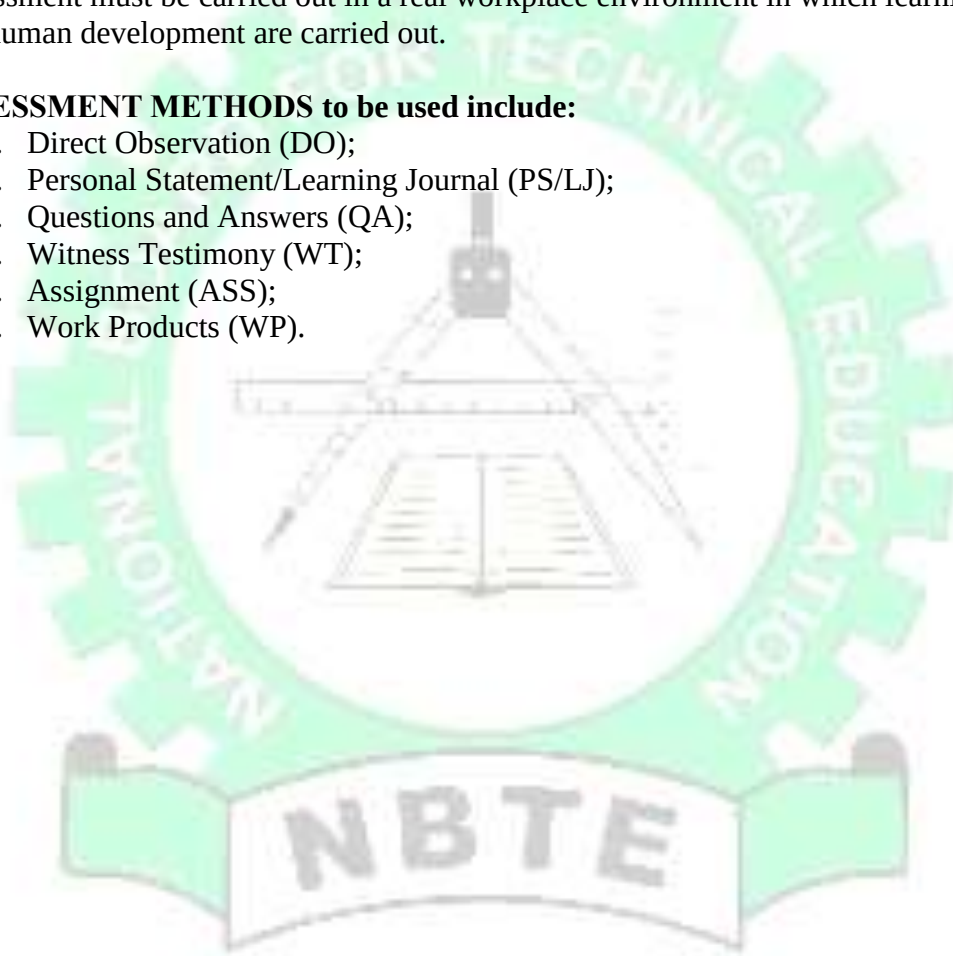
Unit Reference Number:	AGR/FPS/003/L1
NSQ Level:	1
Credit Value:	2
Guided Learning Hours:	20
Practical Time:	115

UNIT PURPOSE: This unit is designed to equip the learner with basic knowledge and skill on occupational health and safety in laboratories/store facilities environment

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Questions and Answers (QA);
4. Witness Testimony (WT);
5. Assignment (ASS);
6. Work Products (WP).



Unit 003: Occupational Health and Safety

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Explain health and safety in work environment.:	1.1	Explain health and safety in a work environment								
	1.2	Discuss the hazards in work environment								
	1.3	Explain first aid								
	1.4	Explain the first aid box								
	1.5	Discuss the uses of the first aid box								
LO 2: Identify Workplace Hazards.:	2.1	Identify common hazards in work system								
	2.2	Identify unsafe practices in work system								
	2.3	Report unsafe conditions promptly to the team leader								
LO 3: Carry out Safety Measures in work place.	3.1	Maintain a clean and organized workspace.								
	3.2	Follow good hygiene practices in workspace								
	3.3	Carry out appropriate training on handling chemicals, hard and soft equipment								
	3.4	Wear appropriate PPE.								
	3.5	Follow appropriate load handling techniques.								
	3.6	Follow emergency procedures when required.								
LO 4: Assist to respond to emergency situations.:	4.1	Explain the procedure in reporting emergency								
	4.2	Identify a muster/safe point								
	4.3	Carry out head count								
	4.4	Carry out first aid treatment								
	4.5	Report the incidence appropriately								
Learners Signature:			Date:							
Assessors Signature:			Date:							
IQA Signature (if sampled)			Date:							

EQA Signature (if sampled)	Date:
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UNIT 004: BASICS OF FUMIGATION

Unit Reference Number: AGR/FPS/004/L1

NSQ Level: 1

Credit Value: 3

Guided Learning Hours: 30

Practical Time: 172

UNIT PURPOSE: This unit is aimed to equip learners with knowledge and skills to assist in fumigation operations.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

- 1 Direct Observation (DO);
- 2 Witness Testimony (WT)
- 3 Personal Statement (PS) or Reflective Practice (RP);
- 4 Work Product (WP);
- 5 Recognition of Prior Learning (RPL);
- 6 Assignment (ASS).

Unit 004: Basics of Fumigation

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Explain fumigation.	1.1	Explain basic principles of fumigation								
	1.2	Discuss different types of fumigation								
	1.3	Explain the importance of fumigation								
	1.4	Mention the stages in fumigation								
LO 2: Identify fumigation dosage:	2.1	Explain the importance of correct fumigation dosage								
	2.2	Discuss the effects of under fumigation								
	2.3	Discuss the effects of over fumigation								
	2.4	Explain the effects of zero fumigation								
LO 3: Recognise different forms of fumigants.	3.1	Define fumigants								
	3.2	Explain different forms of fumigant: • Aerosol • Liquid • Solid • Powders etc.								
	3.3	Explain the importance of fumigants.								
	3.4	Explain hazard associated with the use of fumigants.								
	3.5	Demonstrate donning and doffing of Personal Protective Equipment (PPE) during fumigation								
Learners Signature:			Date:							
Assessors Signature:			Date:							
IQA Signature (if sampled)			Date:							
EQA Signature (if sampled)			Date:							

UNIT 005: FUNDAMENTALS OF PHYTOSANITARY SAFETY

Unit Reference Number:	AGR/FPS/005/L1
NSQ Level:	1
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	115

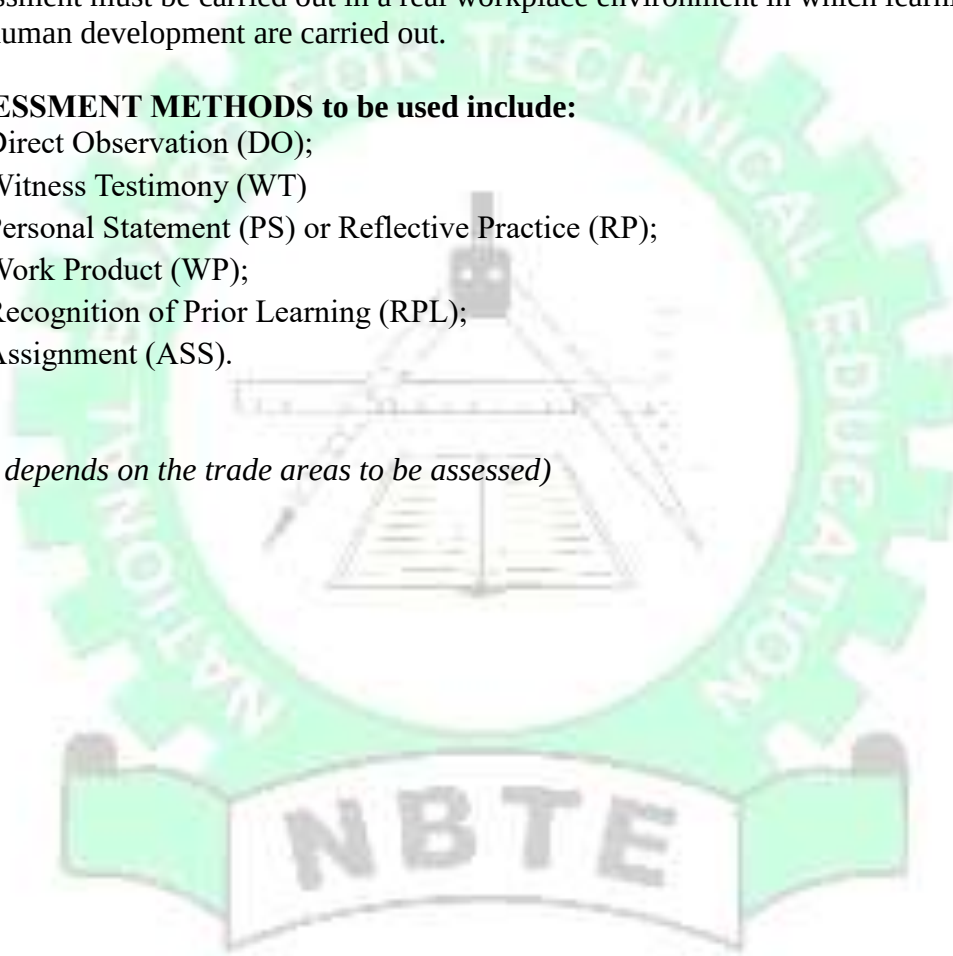
UNIT PURPOSE: This unit is designed to equip learners with basic knowledge and skills of personal and workplace hygiene during fumigation.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Witness Testimony (WT)
3. Personal Statement (PS) or Reflective Practice (RP);
4. Work Product (WP);
5. Recognition of Prior Learning (RPL);
6. Assignment (ASS).

(This depends on the trade areas to be assessed)



Unit 005: Fundamentals of Phytosanitary Safety

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Identify Phytosanitary Safety.:	1.1	Explain Phytosanitary Safety									
	1.2	State the purpose of phytosanitary safety									
	1.3	Explain the importance of phytosanitary safety									
LO 2: Recognise Fumigants Phytosanitary Standards.	2.1	Explain fumigants phytosanitary standards									
	2.2	Discuss fumigation formulation levels									
	2.3	Measure fumigation to minimize the risk of contamination									
LO 3: Carry out Personal and Workplace Hygiene Practices in Fumigation.:	3.1	Discuss personal hygiene									
	3.2	Discuss workplace hygiene									
	3.3	Explain the importance of personal hygiene in fumigation									
	3.4	Explain the importance of workplace hygiene in fumigation									
	3.5	Discuss the safe use of fumigants									
	3.6	Use fumigants safely									
Learners Signature:			Date:								
Assessors Signature:			Date:								
IQA Signature (if sampled)			Date:								
EQA Signature (if sampled)			Date:								

Unit 006: Storage Pest Identification

Unit Reference Number:	AGR/FPS/006/L1
NSQ Level:	1
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	115

UNIT PURPOSE: The purpose of this unit is to equip learners with knowledge and skills to recognize common storage pests and signs of infestation.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Questions and Answers (QA);
4. Witness Testimony (WT);
5. Assignment (ASS);
6. Work Products (WP).

(This depends on the trade areas to be assessed)



Unit 006: Storage Pest Identification

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Identify Storage Pests and Damage.	1.1	Discuss common storage pests		
	1.2	Identify common storage pest:		
	1.3	Recognize the signs of infestation (frass, webbing, holes, droppings, hot spots, etc.)		
	1.4	Distinguish live infestation from old or dead signs		
LO 2: Define pest Monitoring.	2.1	Define pest monitoring		
	2.2	Set simple traps and monitoring devices as instructed		
	2.3	Place simple traps and monitoring devices as instructed		
	2.4	Check traps and probes to collect samples		
	2.5	Keep monitoring devices clean and correctly positioned		
LO 3: Communicate Observation.	3.1	Record pest sightings		
	3.2	Observe trap counts on a given monitoring sheet		
	3.3	Share samples for identification		
	3.4	Communicate infestation promptly to the supervisor		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled)			Date:	
EQA Signature (if sampled)			Date:	

UNIT 007: FUMIGATION EQUIPMENT AND SAFETY SYSTEM I

Unit Reference Number:	AGR/FPS/007/L1
NSQ Level:	1
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	175

UNIT PURPOSE: This unit is designed to equip learners with knowledge and skills of fumigation equipment and safety system during/after fumigation.

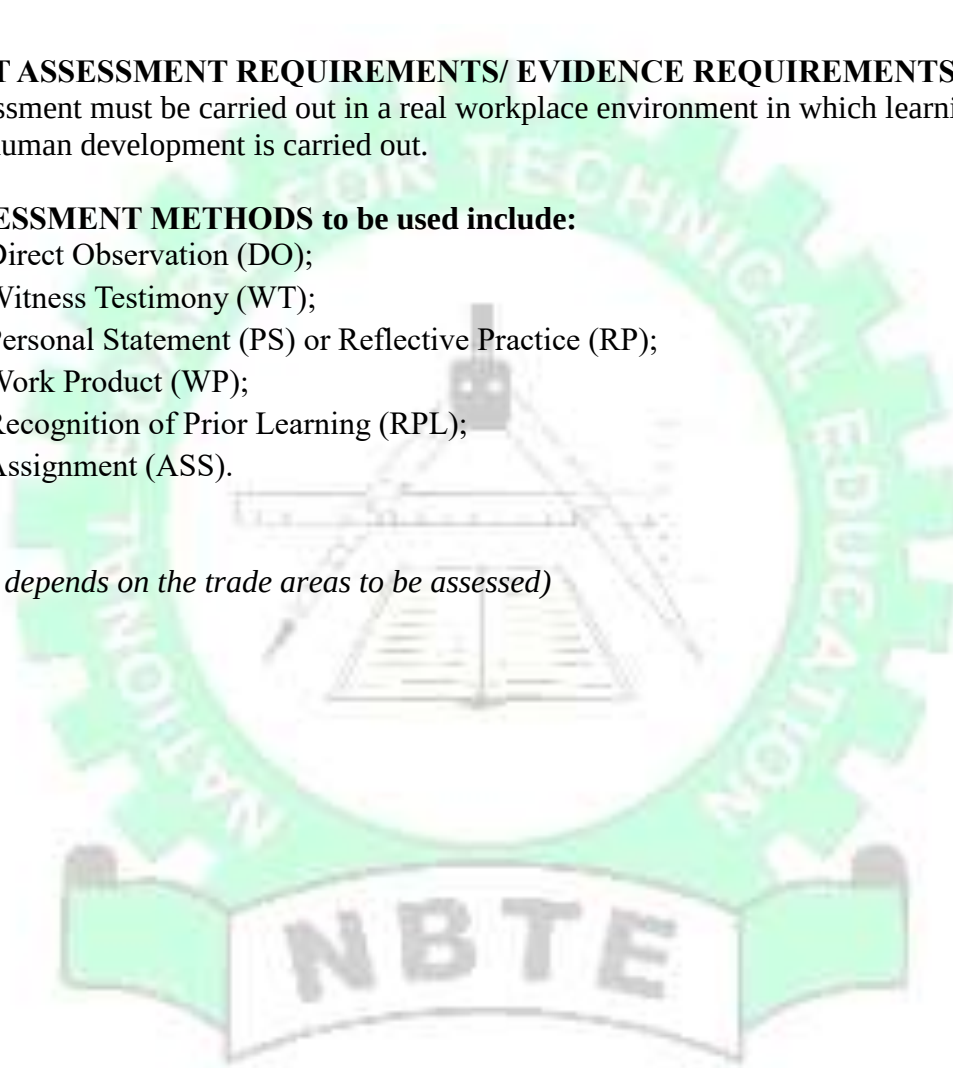
UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development is carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Witness Testimony (WT);
3. Personal Statement (PS) or Reflective Practice (RP);
4. Work Product (WP);
5. Recognition of Prior Learning (RPL);
6. Assignment (ASS).

(This depends on the trade areas to be assessed)



Unit 007: Fumigation Equipment and Safety System I

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Identify Fumigation Equipment.	1.1	Identify fumigation equipment:		
	1.2	Identify the correct PPE and respiratory components		
	1.3	State uses of each item in 1.1 above.		
LO 2: Assist Equipment Preparation.	2.1	Assist in checking equipment and PPE before use.		
	2.2	Recognize and set aside damaged or unsafe equipment.		
	2.3	Assist in cleaning and storing equipment after use.		
LO 3: Follow Safety and Handling Rules.	3.1	Follow safe storage for fumigants and gas cylinders.		
	3.2	Comply with handling rules of each fumigant.		
	3.3	Check and wear PPE correctly.		
	3.4	Report faulty equipment or PPE immediately.		
	3.5	Bath thoroughly after fumigation.		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled			Date:	
EQA Signature (if sampled)			Date:	

UNIT 008: QUALITY, COMPLIANCE AND RECORD-KEEPING

Unit Reference Number: AGR/FPS/008/L1

NSQ Level: 1

Credit Value: 3

Guided Learning Hours: 30

Practical Time: 170

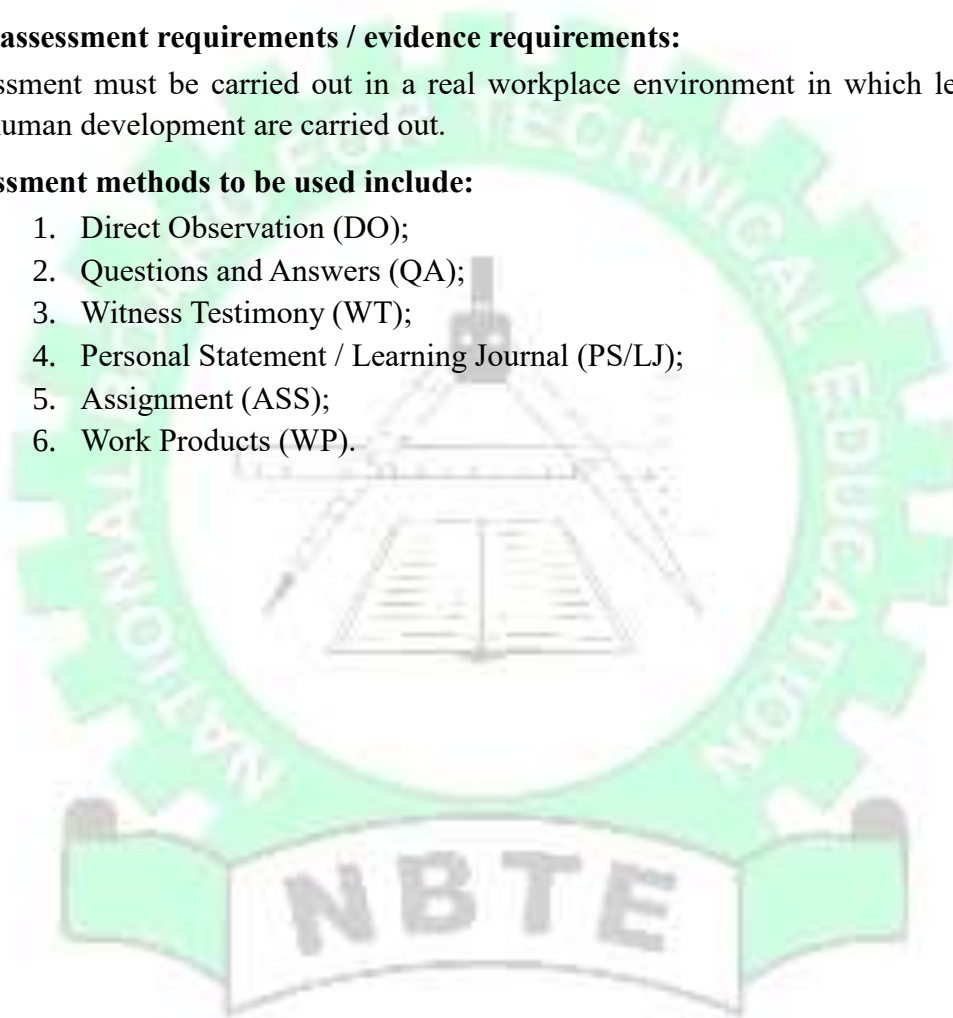
Unit Purpose: The purpose of this unit is to equip the learner with the knowledge and skills to support quality and compliance in fumigation and phytosanitary work.

Unit assessment requirements / evidence requirements:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

Assessment methods to be used include:

1. Direct Observation (DO);
2. Questions and Answers (QA);
3. Witness Testimony (WT);
4. Personal Statement / Learning Journal (PS/LJ);
5. Assignment (ASS);
6. Work Products (WP).



Unit 008: Quality, Compliance and Record-Keeping

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Follow Standard Procedures.	1.1	Follow the standard operating procedure for a task		
	1.2	Work within the limits of own authority and supervision		
	1.3	Ask when a procedure is unclear		
LO 2: Keep Accurate Records.	2.1	Keep work records accurately and legibly		
	2.2	Record honestly and on time		
	2.3	Keep records tidy and retrievable		
LO 3: Apply Hygiene and Environmental Rules.	3.1	Apply basic hygiene and housekeeping rules		
	3.2	Handle and dispose of waste and residues correctly		
	3.3	Recognise environmental and safety good practice		
LO 4: Recognise Non-Conformities.	4.1	Recognise when something is not to standard		
	4.2	Report a non-conformity to the supervisor		
		Support corrective action as instructed		

NATIONAL SKILLS QUALIFICATIONS (NSQ)

Learners Signature:	Date:
Assessors Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:

FUMIGATION AND PHYTOSANITARY CERTIFICATION

LEVEL 2

JUNE, 2026



GENERAL INFORMATION

OVERVIEW

This qualification is designed for individuals who are interested in pursuing a career in NSQ Fumigation and Phytosanitary Certification for the award of National Skills Qualification (NSQ) Level 2.. It is aimed at producing craftsmen in Fumigation and Phytosanitary Certification, with the competencies necessary to support in Fumigation and Phytosanitary Certification.

This qualification is subject to review as and when the need arises.

QUALIFICATION PURPOSE

This qualification is targeted at developing competence in Fumigation and Phytosanitary Certification. This is focused on knowledge, practical skills, communication skills, health and safety, teamwork, and workplace experience.

QUALIFICATION REQUIREMENTS

All candidates must:

- Be at least seventeen (17) years of age;
- Have achieved the NSQ Level 1 qualification in Fumigation and Phytosanitary Certification, or its equivalent;
- Be medically fit;
- Be mentally fit;
- Possess a valid National Identification.

QUALIFICATION OBJECTIVES

At the end of this qualification, the learner should be able to:

1. Communicate effectively in the workplace.
2. Develop team spirit and maintain positive work relationships with colleagues.
3. Comply with health and safety requirements associated with Fumigation and Phytosanitary Treatment.
4. Fumigate and handle fumigant dosage.
5. Identify storage pest.
6. Assist in monitoring of storage pest and action threshold.
7. Assist to select, set-up, operate and maintain fumigation equipment and gas-detection /safety systems.

NATIONAL SKILLS QUALIFICATION (NSQ) TABLE

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours	Practical Learning Hours
1	AGR/FPS/001/L2	Communication in Workplace	3	30	115
2	AGR/FPS/002/L2	Team work	3	30	115
3	AGR/FPS/003/L2	Occupational Health and Safety	3	30	115
4	AGR/FPS/004/L2	Fumigation and Fumigant Dosage	5	50	195
5	AGR/FPS/005/L2	Storage Pest Identification and Monitoring	4	40	195
6	AGR/FPS/006/L2	Fumigation Equipment and Safety System II	4	40	195
7	AGR/FPS/007/L2	Quality, Compliance and Documentation	5	50	150
TOTAL			27	270	1080

QUALIFICATION STRUCTURE

This qualification comprises total of seven (7) mandatory units with 27 Credit Value and 270 Guided learning hours across the full qualification. One (1) Credit is equivalent to approximately Ten (10) Guided Learning Hours (GLH). Guided Learning Hours are the time a learner spends in the classroom, workshop and laboratory of the Skills Training Centre (STC), being taught, instructed, supervised or assessed by a qualified trainer, facilitator or assessor.

In addition to the GLH, the qualification requires at least twice or thrice the GLH as practice time. Practice time is the time a learner is expected to spend applying the skills of each unit in a real workplace environment, carrying out the same tasks repeatedly until performance becomes consistent, accurate and habitual to the standard the qualification demands. It is undertaken under the guidance of a workplace supervisor, recorded in the learner's logbook and duly endorsed. Practice time is the principal setting where core assessment is conducted. It is through repeated performance in the workplace that a learner's achievement of the Learning Outcomes and Performance Criteria is judged and evidenced. Practice time is an additional requirement to GLH and does not replace them.

To achieve this qualification, the learner must complete all mandatory units, undertake the prescribed practice time, and accumulate the minimum credit value approved by NBTE. Credit is awarded only when a learner has been assessed as competent against all Learning Outcomes and Performance Criteria of a unit.

GENERAL GUIDE

Unit title	Provides a clear explanation of the content of the unit.
Unit number	The unique number assigned to the unit.
Unit reference	The unique reference number given to each unit at qualification approval by NBTE
Unit level	Denotes the level of the unit within the National Vocational Qualification framework NSQF.
Unit credit value	The value that has been given to the unit based on the expected learning time for an average learner. 1 credit = 10 learning hours
Unit aim	Provides a brief outline of the unit content.
Learning outcome	A statement of what a learner will know, understand or be able to do, as a result of a process of learning.
Assessment criteria	A description of the requirements a learner must achieve to demonstrate that a learning outcome has been met.
Unit assessment guidance	Any additional guidance provided to support the assessment of the unit.
Unit guided learning hours	The average number of hours of supervised or directed study time or assessment required to achieve a qualification or unit of a qualification.

UNIT 001: COMMUNICATION IN WORKPLACE

Unit reference number:	AGR/FPS/001/L2
NSQ Level:	2
Credit value:	3
Guided learning hours:	30
Practical Time:	115

UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills to communicate effectively with team members

UNIT ASSESSMENT REQUIREMENTS/EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Questions and Answers (QA);
4. Witness Testimony (WT);
5. Assignment (ASS);
6. Work Products (WP).



Unit 001: Communication in work place

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Explain verbal and Non-verbal Communication in the Workplace::	1.1	Explain the importance of effective verbal communication		
	1.2	Explain the importance of effective non-verbal communication		
	1.3	Identify different types of verbal communications		
	1.4	Identify different types of non-verbal communications		
	1.5	Demonstrate the verbal communications in the laboratories/store facilities		
LO 2: Communicate effectively in Laboratories and Stores/Warehouses:	2.1	Identify the different types of communication used in a laboratories/store facility: • Verbal communication (face to face, phone, radio) • Non-verbal communication (visual display, alarms, warning signs) • Written communication (logs, reports, procedures)		
	2.2	Interpret verbal communication in the laboratories/store facilities		
	2.3	Interpret non-verbal communication in the laboratories/store facilities		
	2.4	Communicate with external parties (Clients, Exporters, etc)		
LO 3: Active Listening and Feedback:	3.1	Explain the importance of active listening		
	3.2	Explain the importance of feedback		
	3.3	Explain the importance of clear communication		
	3.4	Demonstrate the use of communication equipment/facilities in 2.1 above		
Learners Signature:			Date:	

Assessors Signature:	Date:
IQA Signature (if sampled	Date:
EQA Signature (if sampled)	Date:



UNIT 002: TEAM WORK

Unit Reference Number: AGR/FPS/002/L2

NSQ Level: 2

Credit Value: 3

Guided Learning Hours: 30

Practical Time: 115

UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills on how to work effectively among team members in laboratories/store facilities

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Witness Testimony (WT);
3. Personal Statement (PS) or Reflective Practice (RP);
4. Work Product (WP);
5. Recognition of Prior Learning (RPL);
6. Assignment (ASS).



Unit 002: Team work

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Identify the roles and responsibilities of Team members	1.1	Explain the functions of each team member		
	1.2	Identify direct supervisor and team members		
	1.3	Follow a pre-defined workflow or chain of command as instructed		
LO 2: Cooperate with Team Members to Complete Tasks	2.1	Assist team members with simple tasks when requested and as instructed by a supervisor		
	2.2	Share resources and tools with the team as needed		
	2.3	Communicate needs or challenges to the team clearly		
LO 3: Use Designated Tools and Resources for Team Collaboration	3.1	Keep positive attitude and demonstrate willingness to learn		
	3.2	Be punctual and ready to start work at the assigned time		
	3.3	Listen respectfully when other team members are speaking		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled)			Date:	
EQA Signature (if sampled)			Date:	

UNIT 003: OCCUPATIONAL HEALTH AND SAFETY

Unit Reference Number:	AGR/FPS/003/L2
NSQ Level:	2
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	115

UNIT PURPOSE: This unit is designed to equip the learner with knowledge and skill on occupational health and safety in laboratories/store facilities

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Questions and Answers (QA);
4. Witness Testimony (WT);
5. Assignment (ASS);
6. Work Products (WP).

(This depends on the Trade Areas to be assessed)



Unit 003: Occupational Health and Safety

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.				
LO 1: Recognise health and safety in a laboratories or store facilities.	1.1	Identify safety regulations in the laboratories/store facilities.										
	1.2	Identify common PPE used in the laboratories/store facilities.										
	1.3	Identify the location of emergency exits and first aid kits in laboratories/store facilities.										
LO 2: Identify Hazards in laboratories/store facilities	2.1	Identify common hazards in laboratories/store facilities.										
	2.2	Follow a pre-defined procedure for handling a minor injury or incident.										
	2.3	Adhere to basic safety rules for handling tools and equipment as instructed.										
LO 3: Maintain a Safe and Tidy laboratories/store facilities	3.1	Secure loose cables and wires using appropriate methods as instructed.										
	3.2	Handle equipment in the designated safe locations.										
	3.3	Store equipment in the designated safe locations.										
	3.4	Dispose waste materials appropriately.										
Learners Signature:			Date:									
Assessors Signature:			Date:									
IQA Signature (if sampled)			Date:									
EQA Signature (if sampled)			Date:									

UNIT 004: FUMIGATION AND FUMIGANT DOSAGE

Unit Reference Number:	AGR/FPS/004/L2
NSQ Level:	2
Credit Value:	5
Guided Learning Hours:	50
Practical Time:	195

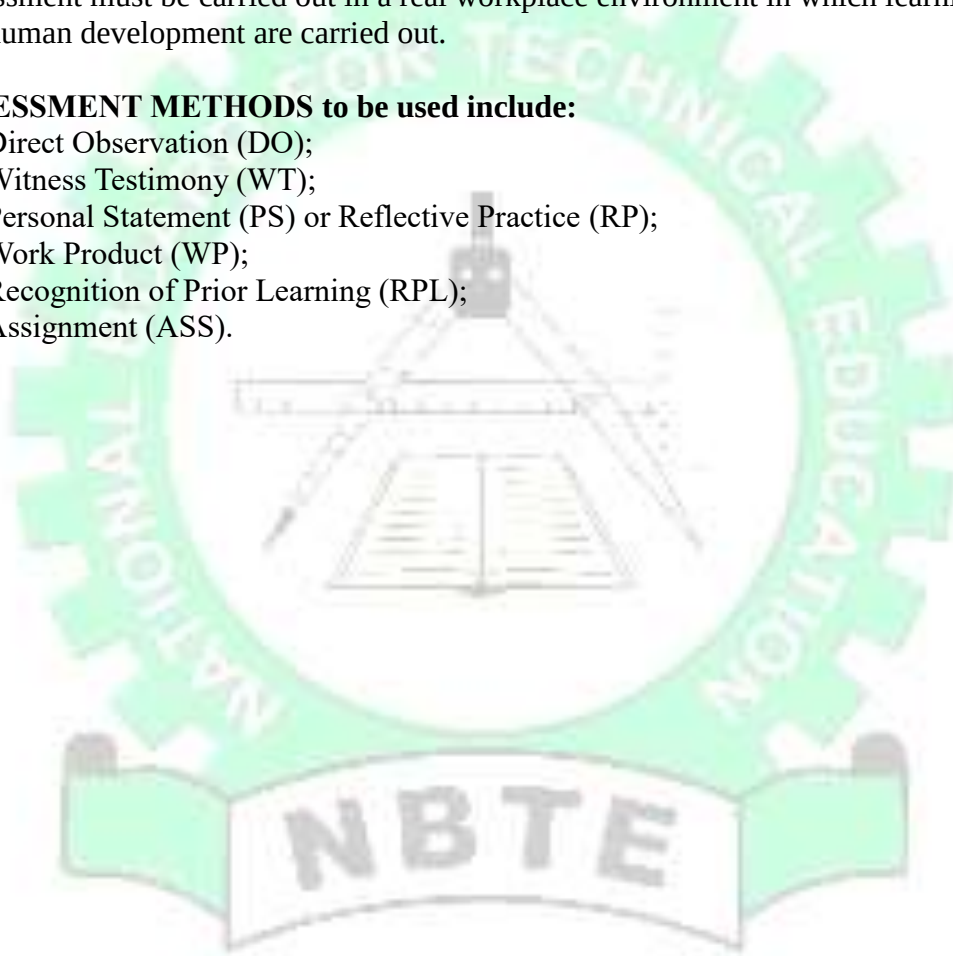
UNIT PURPOSE: This unit is aimed to equip learners with knowledge and skills to fumigate and handle fumigant dosage.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Witness Testimony (WT);
3. Personal Statement (PS) or Reflective Practice (RP);
4. Work Product (WP);
5. Recognition of Prior Learning (RPL);
6. Assignment (ASS).



Unit 004: Fumigation and Fumigant Dosage

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Prepare a Fumigation Dosage.	1.1	Apply fumigant dosage formula for enclosure volume and commodity.								
	1.2	Confirm readiness and exclusion before application.								
	1.3	Carry out the reparation and verification the structural gas-tightness of the enclosure." Prepare a gas-tight enclosure: - Seal the enclosure - Test the enclosure - Fumigate the enclosure								
LO 2: Carry out Fumigation.	2.1	Apply fumigant safely using correct PPE and procedure.								
	2.2	Monitor phosphine concentration with a gas monitor.								
	2.3	Record readings through the exposure period.								
LO 3: Implement fumigation Exposure, Ventilation and Clearance.	3.1	Implement the exposure period to the required standard.								
	3.2	Ventilate enclosure to a safe re-entry period.								
	3.3	Confirm safe clearance before re-entry.								
	3.4	Document findings appropriately.								
LO 4: Respond to Emergencies.	4.1	Identify a fumigation record and treatment Certificate.								
	4.2	Complete a fumigation record and treatment Certification.								
	4.3	Operate closed- loop fumigation (where available)								
	4.4	Demonstrate emergency and gas-leak response								
Learners Signature:			Date:							
Assessors Signature:			Date:							

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.	
IQA Signature (if sampled)			Date:		
EQA Signature (if sampled)			Date:		



UNIT 005: STORAGE PEST IDENTIFICATION AND MONITORING

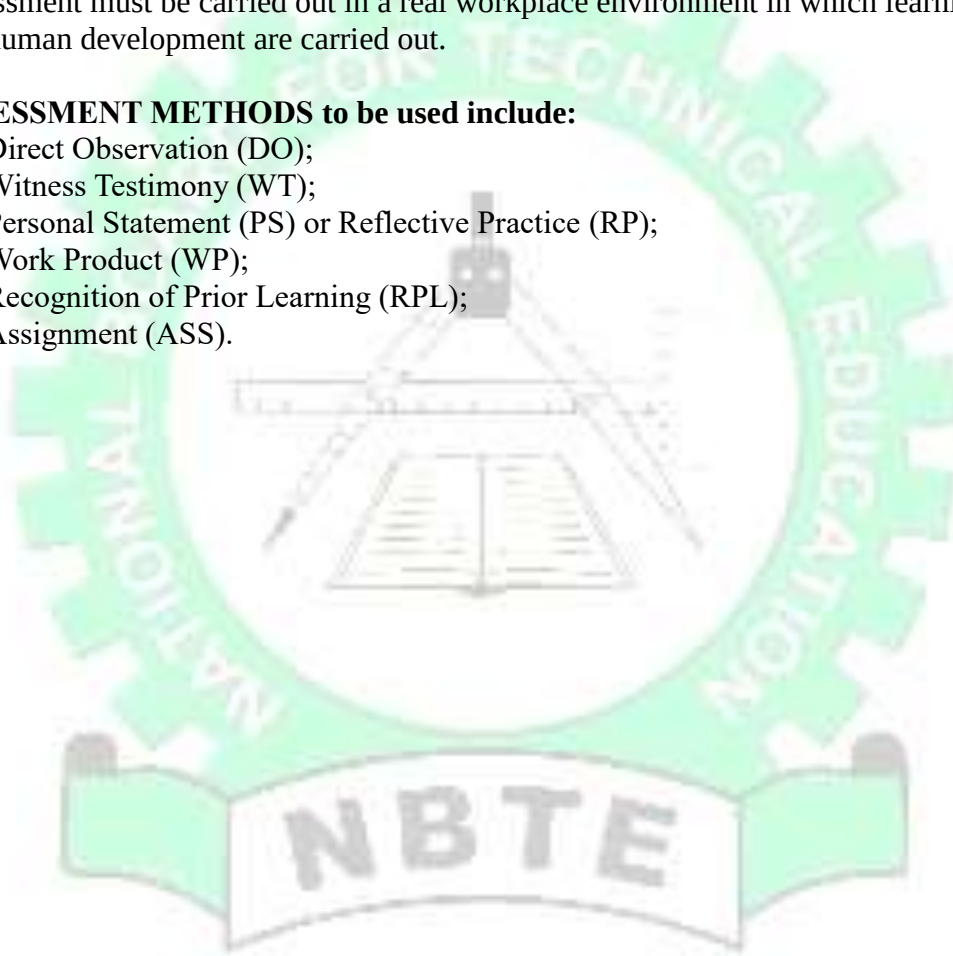
Unit Reference Number:	AGR/FPS/005/L2
NSQ Level:	2
Credit Value:	4
Guided Learning Hours:	40
Practical Time:	195

UNIT PURPOSE: This unit is aimed to equip learners with knowledge and skills to identify, monitor storage pest and action threshold.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Witness Testimony (WT);
3. Personal Statement (PS) or Reflective Practice (RP);
4. Work Product (WP);
5. Recognition of Prior Learning (RPL);
6. Assignment (ASS).



Unit 005: Storage Pest Identification and Monitoring

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.				
LO 1: Recognise Pests to Species Group.	1.1	Identify storage pests to species group using keys and references.										
	1.2	Describe the stage and damage patterns of common pest.										
	1.3	Differentiate primary from secondary pests										
LO 2: Operate a Monitoring Programme.	2.1	Place a trap and inspection grid in a storage.										
	2.2	Operate pheromone and probe correctly										
	2.3	Sample and inspect produce for infestation.										
LO 3: Interpret Data and Thresholds.	3.1	Record data of infestation over time.										
	3.2	Develop a chart from 3.1 above.										
	3.3	Interpret counts against action thresholds.										
	3.4	Recommend when treatment is triggered .										
LO 4: Report Monitoring Outcomes.	4.1	Compile a pest-monitoring report.										
	4.2	Communicate findings to the treatment decision-maker.										
	4.3	Maintain monitoring records and traceability.										
Learners Signature:			Date:									
Assessors Signature:			Date:									
IQA Signature (if sampled			Date:									
EQA Signature (if sampled)			Date:									

UNIT 006: FUMIGATION EQUIPMENT AND SAFETY SYSTEM II

Unit Reference Number: AGR/FPS/006/L2

NSQ Level: 2

Credit Value: 4

Guided Learning Hours: 40

Practical Time: 195

UNIT PURPOSE: This unit is aimed to equip learners with knowledge and skills to select, set-up, operate and maintain fumigation equipment and gas-detection /safety systems.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Witness Testimony (WT);
3. Personal Statement (PS) or Reflective Practice (RP);
4. Work Product (WP);
5. Recognition of Prior Learning (RPL);
6. Assignment (ASS).



Unit 006: Fumigation Equipment and Safety System II

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.				
LO 1: Setup Fumigation Equipment.	1.1	Select appropriate equipment for the fumigation method.										
	1.2	Setup the selected fumigation equipment										
	1.3	Confirm gas-tightness in the storage facility: - Sealed - Unsealed.										
LO 2: Operate Gas Detection and Safety Systems.	2.1	Calibrate a gas monitoring device.										
	2.2	Operate a phosphine monitoring device.										
	2.3	Test respiratory protective equipment.										
	2.4	Setup gas-detection device .										
LO 3: Maintain Fumigation Equipment.	3.1	Inspect fumigation equipment and PPE.										
	3.2	Clean and maintain fumigation equipment and PPE.										
	3.3	Test and log equipment serviceability.										
	3.4	Document defective equipment.										
	3.5	Report defective equipment.										
LO 4: Maintain a Safe Working System.:	4.1	Adhere to safety precautions and work procedures in storage.										
	4.2	Implement cylinder and fumigant storage safely.										
	4.3	Respond promptly to a faulty equipment.										
	4.4	Respond promptly to gas-detection alarm.										
Learners Signature:			Date:									
Assessors Signature:			Date:									

LEARNING OUTCOME (LO) The learner will:	PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
IQA Signature (if sampled)		Date:	
EQA Signature (if sampled)		Date:	



UNIT 007: QUALITY, COMPLIANCE AND DOCUMENTATION

Unit Reference Number: AGR/FPS/007/L2

NSQ Level: 2

Credit Value: 5

Guided Learning Hours: 50

Practical Time: 150

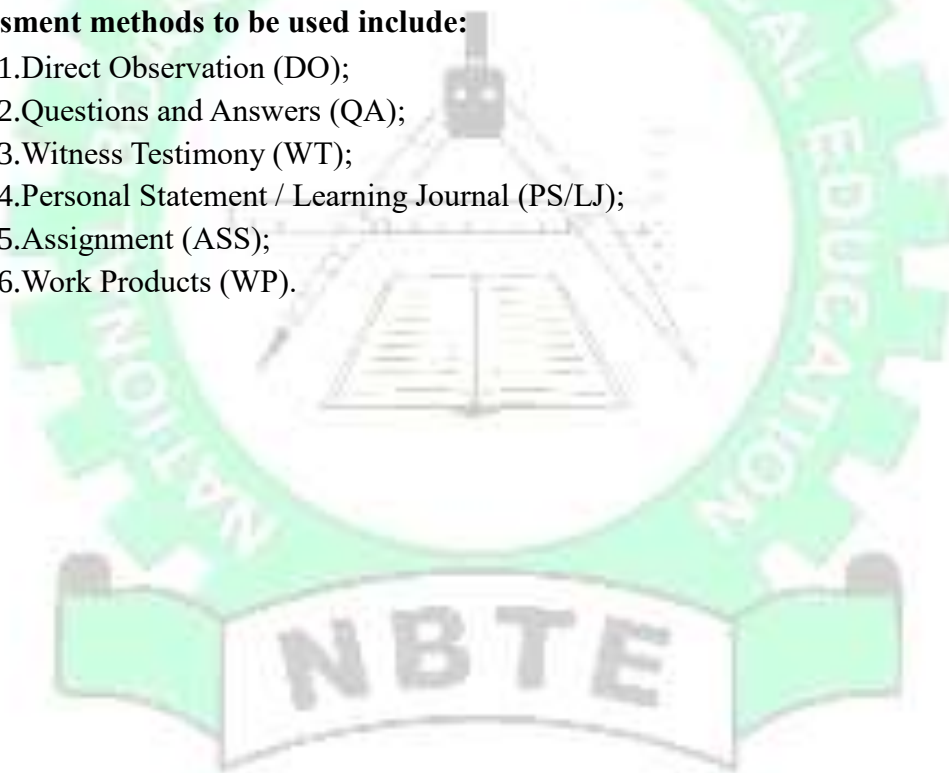
Unit Purpose: This unit is designed to equip the learner with the knowledge and skills to apply quality and compliance standards on produce and inspection documentation.

Unit assessment requirements / evidence requirements:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

Assessment methods to be used include:

1. Direct Observation (DO);
2. Questions and Answers (QA);
3. Witness Testimony (WT);
4. Personal Statement / Learning Journal (PS/LJ);
5. Assignment (ASS);
6. Work Products (WP).



Unit 007: Quality, Compliance and Documentation

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Recognise Procedures and Standards in workplace.	1.1	Apply the relevant Standard Operating Procedures (SOPs) to the task		
	1.2	Verify that work meets the standard before sign-off		
	1.3	Escalate deviations beyond own authority		
LO 2: Prepare Compliant Documentation.	2.1	Complete treatment, inspection and monitoring records to standard		
	2.2	Ensure records are accurate, traceable and complete		
	2.3	Prepare documents for verification or certification		
LO 3: Follow Food-Safety and Environmental Requirements.	3.1	Apply food-safety and hygiene requirements		
	3.2	Apply environmental and controlled-substance rules		
	3.3	Maintain waste and residues compliantly		
LO 4: Address on Non-Conformities.	4.1	Identify non-conformities in the process or product		
	4.2	Record and report the non-conformity		
	4.3	Support corrective action		
Learners Signature:			Date:	
Assessors Signature:			Date:	
IQA Signature (if sampled			Date:	
EQA Signature (if sampled)			Date:	

NATIONAL SKILLS QUALIFICATIONS (NSQ)

FUMIGATION AND PHYTOSANITARY CERTIFICATION

LEVEL 3

JUNE, 2026



GENERAL INFORMATION

OVERVIEW

This qualification is designed for individuals who are interested in pursuing a career in Fumigation and Phytosanitary Certification for the award of National Skills Qualification (NSQ)/ National Occupational Standards(NOS) LEVEL 3. It is aimed at producing competencies necessary to support in Fumigation and Phytosanitary Certification, NSQ LEVEL 3.

This qualification is subject to review as and when the need arises.

QUALIFICATION PURPOSE

The qualification is designed to produce competent in Fumigation and Phytosanitary Certification technician with knowledge, skills, and attitude required to operate and maintain fumigation equipment and gas-detection / safety systems.

QUALIFICATION REQUIREMENTS

All candidates must be:

- At least eighteen (18) years of age;
- Medically fit;
- Mentally fit (Mental alertness);
- A Nigerian citizen;
- Other nationals with International passport, residence permit or Parent work permit;
- Vetted;
- Interested in agricultural production and related support operations.

QUALIFICATION OBJECTIVES

At the end of this qualification, the learner should be able to:

- i. Communicate effectively in the workplace.
- ii. Develop team spirit and maintain positive work relationships with colleagues.
- iii. Comply with health and safety requirements associated with Fumigation and Phytosanitary Certification.
- iv. Identify certification bodies and their requirements.
- v. Assist in managing pest in the storage using Integrated Pest Management (IPM).
- vi. Select, set-up, operate and maintain fumigation equipment and gas-detection / safety systems.

NATIONAL SKILLS QUALIFICATION(NSQ)TABLE

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours	Practical Learning Hours
1	AGR/FPS/001/L3	Communication in workplace	3	30	115
2	AGR/FPS/002/L3	Team work	3	30	115
3	AGR/FPS/003/L3	Occupational Health and Safety	3	30	115
4	AGR/FPS/004/L3	Phytosanitary Certification Agencies	7	70	115
5	AGR/FPS/005/L3	Storage Pest Management and Integrated Pest Management (IPM) Supervision	7	70	230
6	AGR/FPS/006/L3	Fumigation Equipment and Safety System Management II	7	70	230
7	AGR/FPS/007/L3	Quality Management and Compliance Auditing	6	60	140
TOTAL			36	360	1060

QUALIFICATION STRUCTURE

This qualification comprises total of seven (7) mandatory units with 36 Credit Value and 360 Guided learning hours across the full qualification. One (1) Credit is equivalent to approximately Ten (10) Guided Learning Hours (GLH). Guided Learning Hours are the time a learner spends in the classroom, workshop and laboratory of the Skills Training Centre (STC), being taught, instructed, supervised or assessed by a qualified trainer, facilitator or assessor.

In addition to the GLH, the qualification requires at least twice or thrice the GLH as practice time. Practice time is the time a learner is expected to spend applying the skills of each unit in a real workplace environment, carrying out the same tasks repeatedly until performance becomes consistent, accurate and habitual to the standard the qualification demands. It is undertaken under the guidance of a workplace supervisor, recorded in the learner's logbook and duly endorsed. Practice time is the principal setting where core assessment is conducted. It is through repeated performance in the workplace that a learner's achievement of the Learning Outcomes and Performance Criteria is judged and evidenced. Practice time is an additional requirement to GLH and does not replace them.

To achieve this qualification, the learner must complete all mandatory units, undertake the prescribed practice time, and accumulate the minimum credit value

approved by NBTE. Credit is awarded only when a learner has been assessed as competent against all Learning Outcomes and Performance Criteria of a unit.

GENERAL GUIDE

Unit title	Provides a clear explanation of the content of the unit.
Unit number	The unique number assigned to the unit.
Unit reference	The unique reference number given to each unit at qualification approval by NBTE
Unit level	Denotes the level of the unit within the National Vocational Qualification framework NSQF.
Unit credit value	The value that has been given to the unit based on the expected learning time for an average learner. 1 credit = 10 learning hours
Unit aim	Provides a brief outline of the unit content.
Learning outcome	A statement of what a learner will know, understand or be able to do, as a result of a process of learning.
Assessment criteria	A description of the requirements a learner must achieve to demonstrate that a learning outcome has been met.
Unit assessment guidance	Any additional guidance provided to support the assessment of the unit.
Unit guided learning hours	The average number of hours of supervised or directed study time or assessment required to achieve a qualification or unit of a qualification.

UNIT 001: COMMUNICATION IN WORKPLACE

Unit reference number: AGR/FPS/001/L3

NSQ Level: 3

Credit value: 3

Guided learning hours: 30

Practical Time: 115

UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills to communicate effectively with team members

UNIT ASSESSMENT REQUIREMENTS/EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Recognition of Prior Learning and experience (RPL);
3. Witness testimony (WT);
4. Personal statement (PS)/ Reflective Practice (RP);
5. Work Product (WP) ;
6. Assignment (ASS);
7. Professional Discussion (PD).



Unit 001: Communication in work place

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Maintain Communication in the Laboratories and Storage Facilities.	1.1	Use verbal means of communication to pass on necessary information.		
	1.2	Use non-verbal means of communication to pass on necessary information.		
	1.3	Identify symbols and signs in the laboratories and storage facilities.		
LO 2: Recognise sources of Information in Laboratories and Storage Facilities.	2.1	Relate appropriately with the various sources of information in laboratories and storage facilities.		
	2.2	Use the various information flow systems in laboratories and storage facilities.		
	2.3	Use information sources to address challenges in laboratories and storage facilities.		
	2.4	Communicate findings in accordance to procedures in the laboratory and storage facilities.		
LO 3: Communicate effectively in the Laboratories and Storage Facilities.	3.1	Ask for clarification before using any laboratory equipment.		
	3.2	Report abnormal reaction immediately.		
	3.3	Use short instructions in noisy environment.		
Learner's Signature:			Date:	
Assessor's Signature:			Date:	
IQA Signature (if sampled)			Date:	
EQA Signature (if sampled)			Date:	

UNIT 002: TEAM WORK

Unit Reference Number:	AGR/FPS/002/L3
NSQ Level:	3
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	115

UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills on how to work effectively among team members in laboratory/ store /warehouse.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Recognition of Prior Learning and experience (RPL);
3. Witness testimony (WT);
4. Personal statement (PS)/ Reflective Practice (RP);
5. Work Product (WP) ;
6. Assignment (ASS);
7. Professional Discussion (PD).



Unit 002: Team work

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Demonstrate Effective Teamwork.	1.1	Explain active listening.		
	1.2	Explain clear communication.		
	1.3	Explain team collaboration across units/department		
LO 2: Maintain Positive Working Relationship with Colleagues.	2.1	Explain the values of teamwork in laboratories and storage facilities.		
	2.2	Identify the need for developing positive relationship with colleagues .		
	2.3	Recognize the importance of treating all colleagues fairly regardless of position or experience.		
LO 3: Adhere to Organizational Policy.	3.1	Explain rules and regulations of the organization.		
	3.2	List the rules and regulations of the organization..		
	3.3	Comply with the rules and regulations of the organization		
Learner's Signature:			Date:	
Assessor's Signature:			Date:	
IQA Signature (if sampled)			Date:	
EQA Signature (if sampled)			Date:	

UNIT 003: OCCUPATIONAL HEALTH AND SAFETY

Unit Reference Number:	AGR/FPS/003/L3
NSQ Level:	3
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	115

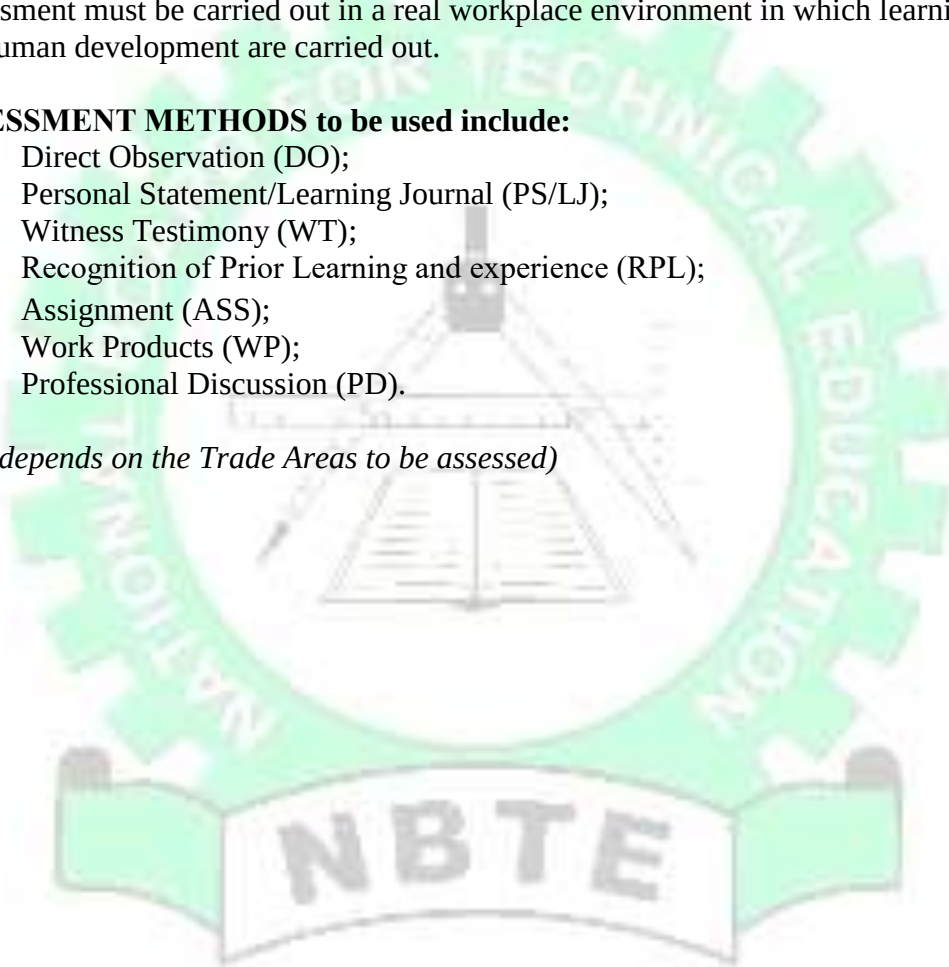
UNIT PURPOSE: This unit is designed to equip the learner with knowledge and skills on occupational health and safety in laboratories/stores/warehouses.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Witness Testimony (WT);
4. Recognition of Prior Learning and experience (RPL);
5. Assignment (ASS);
6. Work Products (WP);
7. Professional Discussion (PD).

(This depends on the Trade Areas to be assessed)



Unit 003: Occupational Health and Safety

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Apply personal health, safety and environment Protection in Laboratories and Storage Facilities.	1.1	State the importance of health, safety and environment protection		
	1.2	Identify health and safety guidelines as it relates to laboratories and storage facilities.		
	1.3	Carry out first aid in dealing with: • Allergies • Cuts • Bruises • Wounds • Dislocation • Foreign particles in eyes, etc.		
LO 2: Implement hygiene, safe and secure reporting in Laboratories and Storage Facilities.	2.1	Report any form of accident in the work place.		
	2.2	Report any non-compliance using the prescribed work place procedures.		
	2.3	Practice emergency procedures during work: • Muster point assembly • Evacuation of personnel • Fire drill • Use of fire extinguisher, etc.		
LO 3: Carry out preventive measures against hazards in laboratories/ storage facilities.:	3.1	Demonstrate safe lifting and handling techniques of equipment/goods.		
	3.2	Demonstrate other safety preventive ways of handling equipment/goods.		
	3.3	Report all incidences to the appropriate authority.		
	3.4	Assist in documenting reported incidences.		
Learner's Signature:			Date:	
Assessor's Signature:			Date:	
IQA Signature (if sampled)			Date:	
EQA Signature (if sampled)			Date:	

UNIT 004: PHYTOSANITARY CERTIFICATION AGENCIES

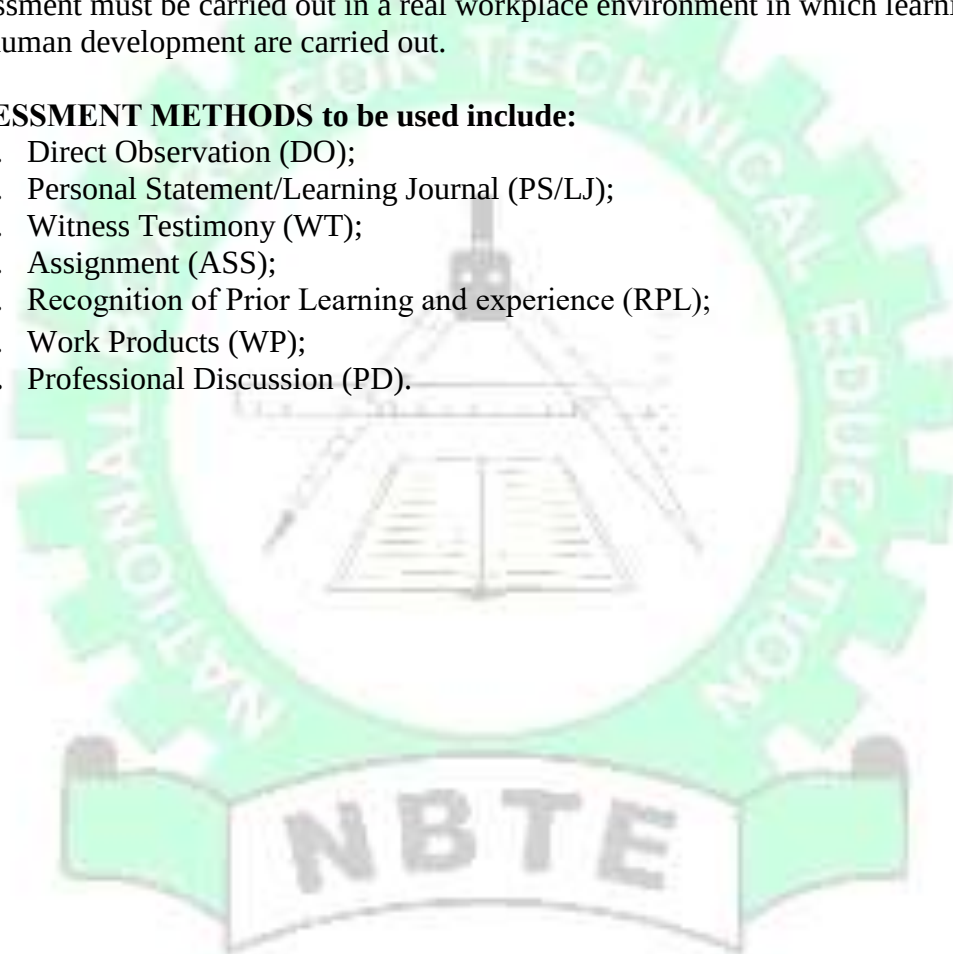
Unit Reference Number:	AGR/FPS/004/L3
NSQ Level:	3
Credit Value:	7
Guided Learning Hours:	70
Practical Time:	115

UNIT PURPOSE: The purpose of this unit is to equip learners with knowledge and skills to identify certification bodies and their requirements.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Witness Testimony (WT);
4. Assignment (ASS);
5. Recognition of Prior Learning and experience (RPL);
6. Work Products (WP);
7. Professional Discussion (PD).



Unit 004: Phytosanitary Certification Agencies

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Identify International Conventions and Certification Agencies.	1.1	Discuss the following International Conventions: • International Plant Protection Convention (IPPC) • International Sanitary and Phytosanitary Managements (ISPMs) • Quantity Take-Off-Sanitary and Phytosanitary (QTO-SPS) Agreement		
	1.2	Discuss the following agencies: • National Agriculture Quarantine Services (NAQS) • International Plant Protection Convention (IPPS) • Federal Produce Inspection Service (FPIS) • National Agency for Food and Drug Administration and Control (NAFDAC) • Standard Organization of Nigeria (SON), etc.		
	1.3	Identify the regulation of the above mentioned agencies.		
	1.4	List the process of inspection of the above agencies.		
	1.5	Identify the certificates issued by the agencies		
LO 2: Conduct inspection and certification of consignments	2.1	Inspect consignments for phytosanitary.		
	2.2	Determine phytosanitary conformity using monitoring devices		
	2.3	List requirements for		



The logo of the National Board for Technical Education (NBTE) is located in the bottom right corner. It features a green banner with the letters "NBTE" in white, set against a background of green leaves.

UNIT 005: STORAGE PEST MANAGEMENT AND INTEGRATED PEST MANAGEMENT (IPM) SUPERVISION

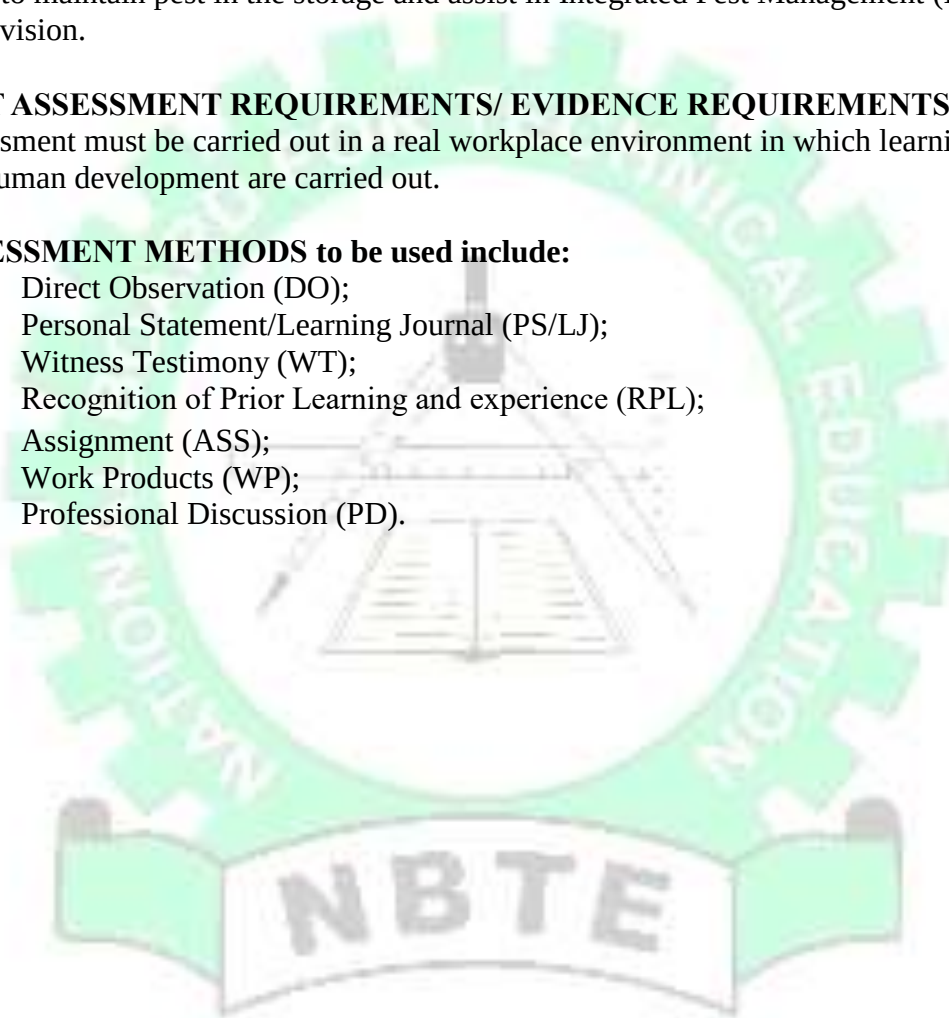
Unit Reference Number:	AGR/FPS/005/L3
NSQ Level:	3
Credit Value:	7
Guided Learning Hours:	70
Practical Time:	230

UNIT PURPOSE: The purpose of this unit is to equip learners with knowledge and skills to maintain pest in the storage and assist in Integrated Pest Management (IPM) Supervision.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Witness Testimony (WT);
4. Recognition of Prior Learning and experience (RPL);
5. Assignment (ASS);
6. Work Products (WP);
7. Professional Discussion (PD).



Unit 005: Fundamentals of Phytosanitary Safety

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.				
LO 1: Implement Integrated Pest Management (IPM) and Monitoring Programme.	1.1	Identify Integrated Pest Management (IPM).									
	1.2	Identify the principles of integrated pest management programme.									
	1.3	Support the plan and monitoring regime with thresholds and responsibilities.									
LO 2: Assess Trends and Resistance Risk.	2.1	Identify trends and resistance risk.									
	2.2	Identify trends and infestation patterns.									
	2.3	Identify resistance risk and rotation needs.									
	2.4	Assist in determining the treatment strategy and timing.									
LO 3: Carry out Pest Management Activities.	3.1	Assist in monitoring pest management activities.									
	3.2	Assist in corrective and preventive action.									
	3.3	Keep records and traceability of the IPM programmes.									
LO 4: Apply Pest Management Practice	4.1	Assist in Auditing and IPM practice against standard.									
	4.2	Assist in evaluating programme effectiveness.									
	4.3	Report IPM performance									

		to supervisor.											
Learner's Signature:			Date:										
Assessor's Signature:			Date:										
IQA Signature (if sampled)			Date:										
EQA Signature (if sampled)			Date:										



UNIT 006: FUMIGATION EQUIPMENT AND SAFETY SYSTEM MANAGEMENT II

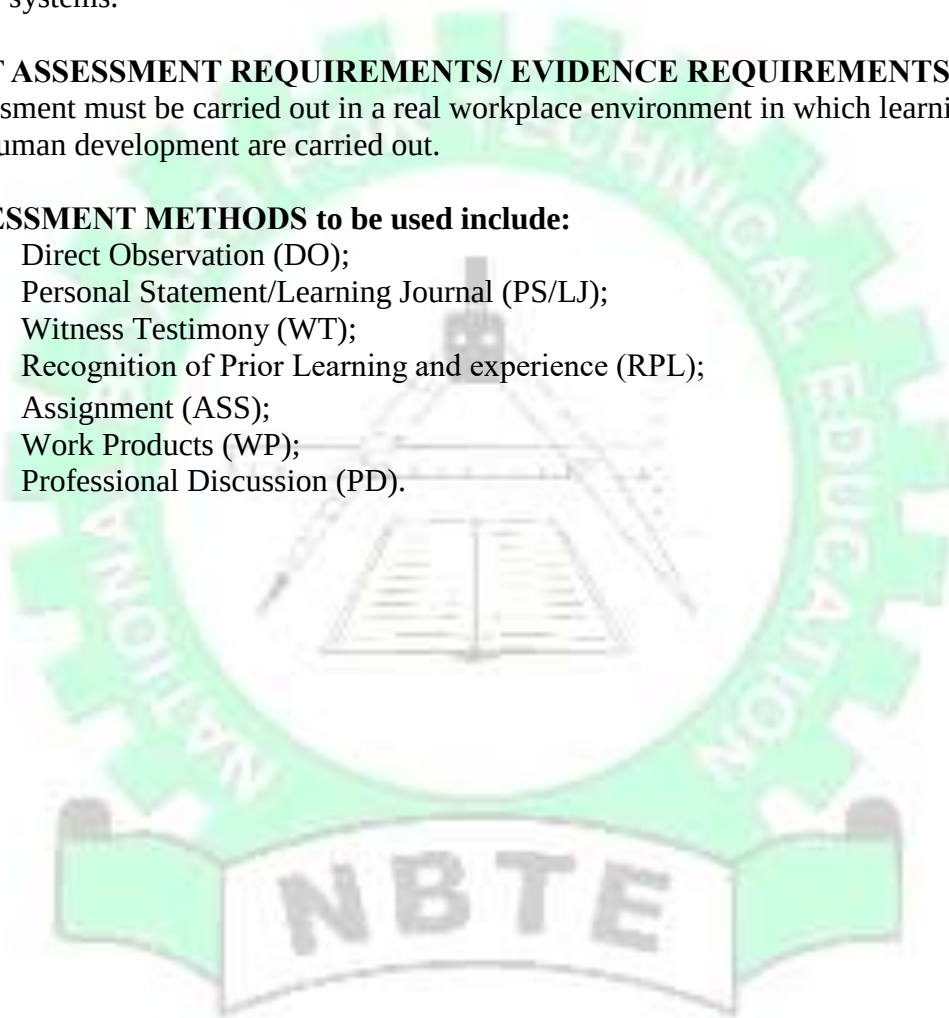
Unit Reference Number:	AGR/FPS/006/L3
NSQ Level:	3
Credit Value:	7
Guided Learning Hours:	70
Practical Time:	230

UNIT PURPOSE: The purpose of this unit is to equip learners with knowledge and skills to select, set-up, operate and maintain fumigation equipment and gas-detection / safety systems.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Personal Statement/Learning Journal (PS/LJ);
3. Witness Testimony (WT);
4. Recognition of Prior Learning and experience (RPL);
5. Assignment (ASS);
6. Work Products (WP);
7. Professional Discussion (PD).



**UNIT 006: FUMIGATION EQUIPMENT AND SAFETY SYSTEM
MANAGEMENT II**

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.	
LO 1: Implement fumigation equipment Management.	1.1	Specify fumigation equipment to standard.			
	1.2	Specify safety equipment to standard.			
	1.3	Procure fumigants to standard.			
	1.4	Procure safety equipment to standard.			
	1.5	Maintain a calibration and maintenance schedule.			
	1.6	Implement equipment inventory			
	1.7	Maintain serviceability records.			
LO 2: Implement Safe Systems and Emergency Response.	2.1	Identify the safe system of work for fumigation operations.			
	2.2	Identify: Gas-detection device, Alarm Emergency-response arrangements.			
	2.3	Assist in risk assessment of fumigation hazards			
	2.4	List ways of minimizing fumigation hazards.			
LO 3: Operate fumigation equipment.	3.1	Operate fumigation equipment efficiently.			
	3.2	Take corrective action against equipment misuse.			
	3.3	Test PPE to find defects.			
	3.4	Wear PPE correctly			
LO 4: Maintain Compliance with Safety. System Audits	4.1	Assist in safety-system equipment audit compliance.			
	4.2	Investigate simple equipment incidents.			
	4.3	Implement corrective action under supervision.			
	4.4	Report safety-system			

		performance to supervisor.											
Learner's Signature:			Date:										
Assessor's Signature:			Date:										
IQA Signature (if sampled)			Date:										
EQA Signature (if sampled)			Date:										



UNIT 007: QUALITY MANAGEMENT AND COMPLIANCE AUDITING

Unit Reference Number:	AGR/FPS/007/L3
NSQ Level:	3
Credit Value:	6
Guided Learning Hours:	60
Practical Time:	140

Unit Purpose: the purpose of this unit is to equip the learner with the knowledge and skills to maintain quality compliance and conduct audits in fumigation and phytosanitary certification.

Unit assessment requirements / evidence requirements:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

Assessment methods to be used include:

1. Direct Observation (DO);
2. Recognition of Prior Learning and Experience (RPL);
3. Witness Testimony (WT);
4. Personal Statement / Learning Journal (PS/LJ);
5. Assignment (ASS);
6. Work Products (WP);
7. Professional Discussion (PD);

Unit 007: Quality Management and Compliance Auditing

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Implement quality management system.	1.1	Apply a quality-management system to ISO 17020/17065 standard under supervision								
	1.2	Maintain documented procedures and controlled records								
	1.3	Maintain impartiality and confidentiality controls								
LO 2: Conduct audits.:	2.1	Define audit								
	2.2	Identify types of audits								
	2.3	Explain the importance of audit								
LO 3: Maintain non-conformities and corrective action.	3.1	Classify non-conformities								
	3.2	Identify root cause and corrective action								
	3.3	Verify that corrective action is effective								
LO 4: Drive continuous improvement initiatives.	4.1	Document quality and compliance data for trends								
	4.2	Recommend improvements								
	4.3	Support management review of the system								
Learner's Signature:			Date:							
Assessor's Signature:			Date:							
IQA Signature (if sampled)			Date:							
EQA Signature (if sampled)			Date:							

NATIONAL SKILLS QUALIFICATIONS (NSQ)

FUMIGATION AND PHYTOSANITARY CERTIFICATION

LEVEL 4

JUNE, 2026



GENERAL INFORMATION

OVERVIEW

This qualification is designed for individuals who are interested in pursuing a career in Fumigation and Phytosanitary Certification for the award of National Skills Qualification (NSQ)/ National Occupational Standards (NOS). It is aimed at producing competencies necessary to support in Fumigation and Phytosanitary Certification at NSQ Level 4.

This qualification is subject to review as and when the need arises.

QUALIFICATION PURPOSE

This qualification is targeted at developing competence in Fumigation and Phytosanitary Certification. This is focused on knowledge, practical skills, communication skills, health and safety, teamwork, and workplace experience.

QUALIFICATION REQUIREMENTS

All candidates must:

;

Possess a valid National Identification.

- At least (20) years of age
- Medically fit
- Mentally fit (Mental alertness)
- A Nigerian citizen
- Other nationals should present International passport, residence permit or Parent work permit.
- Vetted
- Interest in agricultural production and related support operations
- Ability to carry out simple practical tasks under supervision.

QUALIFICATION OBJECTIVES

At the end of this qualification, the learner should be able to:

- i. Communicate effectively in the workplace.
- ii. Develop team spirit and maintain positive work relationships with colleagues.
- iii. Comply with health and safety requirements associated with Fumigation and Phytosanitary Treatment.
- iv. Prepare the worksite for Agricultural Commodity Fumigation.
- v. Prepare fumigation equipment to execute fumigation process safely and effectively.
- vi. Prepare fumigation and restore the site for safe access.
- vii. Ensure compliance with National and International Phytosanitary regulations.

NATIONAL SKILLS QUALIFICATION (NSQ) TABLE(

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours	Practical Learning Hours
1	AGR/FPS/001/L4	Communication in work	3	30	115
2	AGR/FPS/002/L4	Team work	3	30	115
3	AGR/FPS/003/L4	Occupational Health and Safety	3	30	115
4	AGR/FPS/004/L4	Agricultural Commodity Fumigation	8	80	140
5	AGR/FPS/005/L4	Preparation of Fumigation Equipment and Fumigants	8	80	145
6	AGR/FPS/006/L4	Post-treatment Measures	8	80	140
7	AGR/FPS/007/L4	Phytosanitary Safety and Regulatory Compliance	8	80	140
8	AGR/FPS/008/L4	Quality Systems and Compliance Management	10	100	140
TOTAL			51	510	1050

QUALIFICATION STRUCTURE

This qualification comprises total of eight (8) mandatory units with 51 Credit Value and 510 Guided learning hours across the full units set. One (1) Credit is equivalent to approximately Ten (10) Guided Learning Hours (GLH). Guided Learning Hours are the time a learner spends in the classroom, workshop and laboratory of the Skills Training Centre (STC), being taught, instructed, supervised or assessed by a qualified trainer, facilitator or assessor.

In addition to the GLH, the qualification requires at least twice or thrice the GLH as practice time. Practice time is the time a learner is expected to spend applying the skills of each unit in a real workplace environment, carrying out the same tasks repeatedly until performance becomes consistent, accurate and habitual to the standard the qualification demands. It is undertaken under the guidance of a workplace supervisor, recorded in the learner's logbook and duly endorsed. Practice time is the principal setting where core assessment is conducted. It is through repeated performance in the workplace that a learner's achievement of the Learning Outcomes and Performance Criteria is judged and evidenced. Practice time is an additional requirement to GLH and does not replace them.

To achieve this qualification, the learner must complete all mandatory units, undertake the prescribed practice time, and accumulate the minimum credit value approved by NBTE. Credit is awarded only when a learner has been assessed as competent against all Learning Outcomes and Performance Criteria of a unit.



GENERAL GUIDE

Unit title	Provides a clear explanation of the content of the unit.
Unit number	The unique number assigned to the unit.
Unit reference	The unique reference number given to each unit at qualification approval by NBTE
Unit level	Denotes the level of the unit within the National Vocational Qualification framework NSQF.
Unit credit value	The value that has been given to the unit based on the expected learning time for an average learner. 1 credit = 10 learning hours
Unit aim	Provides a brief outline of the unit content.
Learning outcome	A statement of what a learner will know, understand or be able to do, as a result of a process of learning.
Assessment criteria	A description of the requirements a learner must achieve to demonstrate that a learning outcome has been met.
Unit assessment guidance	Any additional guidance provided to support the assessment of the unit.
Unit guided learning hours	The average number of hours of supervised or directed study time or assessment required to achieve a qualification or unit of a qualification.

UNIT 001: COMMUNICATION IN WORK

Unit reference number:	AGR/FPS/001/L4
NSQ Level:	4
Credit value:	3
Guided learning hours:	30
Practical Time:	115

UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills to communicate effectively with team members

UNIT ASSESSMENT REQUIREMENTS/EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

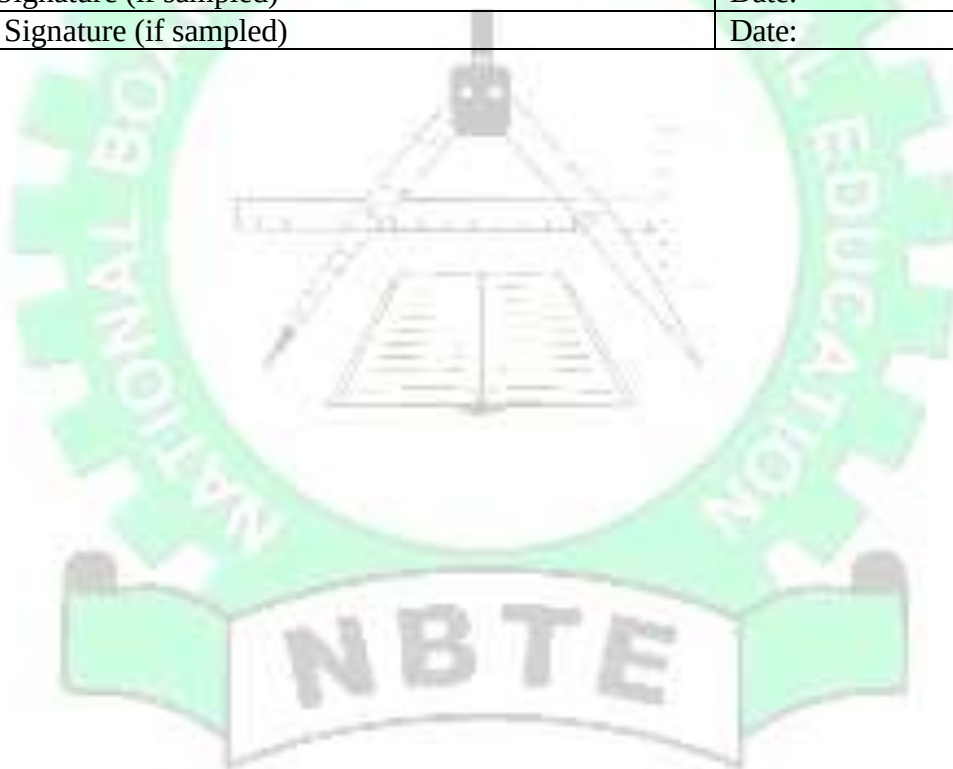
ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Recognition of Prior Learning and Experience (RPL);
3. Witness Testimony (WT);
4. Personal Statement / Learning Journal (PS/LJ);
5. Assignment (ASS);
6. Work Products (WP);
7. Professional Discussion (PD);



Unit 001: Communication in work place

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Analyse work-related information clearly and effectively.:	1.1	Pass on work-related information and requirements clearly to team members using appropriate terminology.								
	1.2	Respond appropriately to obtained information to confirm understanding.								
	1.3	Communicate to team members the appropriate work techniques and methods for tasks.								
	1.4	Report any unresolved problems, deviations from work plans, or safety concerns to the supervisor immediately.								
LO 2: Demonstrate effective interpersonal and communication skills.:	2.1	Use written and oral communication techniques to enhance relationships with management, team members and others.								
	2.2	Communicate effectively with all individuals regardless of age, gender, community, or other characteristics without using unfamiliar terminology.								
	2.3	Respond to queries and information needs of co-workers and stakeholders professionally.								
	2.4	Seek clarification and advice from appropriate persons when situations exceed competence and authority.								
LO 3: Resolve communication conflicts and address barriers.	3.1	Identify problems with team members to take initiative to resolve issues constructively.								
	3.2	Address discriminatory, offensive, or unprofessional behavior according to organizational policy.								
	3.3	Explain reasons of any failure to fulfill commitments made to others.								
	3.4	Use conflict resolution skills to facilitate positive team interactions and maintain								

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UNIT 002: TEAM WORK

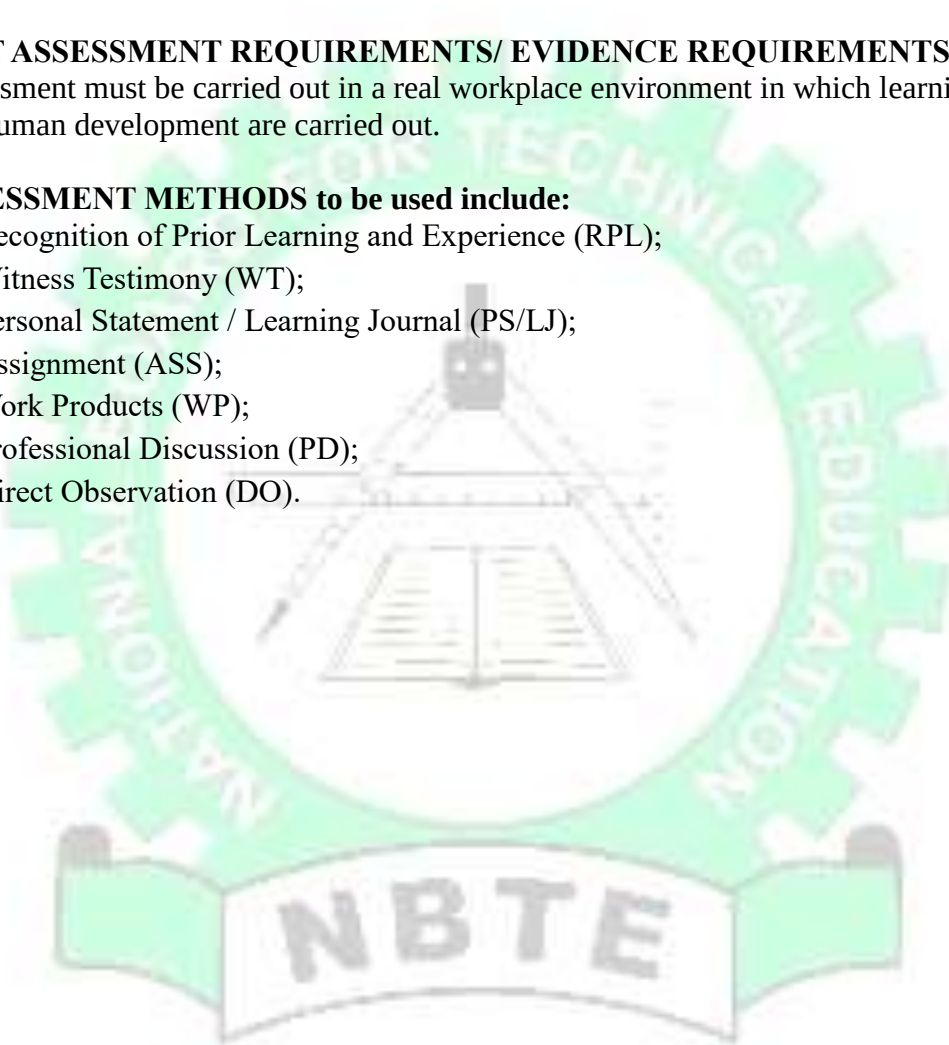
Unit Reference Number:	AGR/FPS/002/L4
NSQ Level:	4
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	115

UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills on how to work effectively among team members in laboratory/ store /warehouse.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Recognition of Prior Learning and Experience (RPL);
2. Witness Testimony (WT);
3. Personal Statement / Learning Journal (PS/LJ);
4. Assignment (ASS);
5. Work Products (WP);
6. Professional Discussion (PD);
7. Direct Observation (DO).



Unit 002: Team work

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Coordinate team activities and integrate work efforts.:	1.1	Establish, agree, and record work requirements with team members								
	1.2	Organize work activities with team members to ensure timely completion								
	1.3	Hand over required materials, tools, equipment, and work fronts timely to interfacing teams.								
	1.4	Work together with co-workers in a synchronized manner to achieve project requirement.								
LO 2: Support co-workers to execute Fumigation and Phytosanitary requirements.:	2.1	Support co-workers facing problems to ensure smooth work activities.								
	2.2	Ensure own work meets agreed requirements and integrate effectively with others.								
	2.3	Provide constructive feedback for self and other team members.								
	2.4	Pass on essential information to other team members on a timely basis effectively.								
LO 3: Practice inclusion and respect diversity at the workplace.:	3.1	Practice gender-neutral approaches at the workplace.								
	3.2	Support colleagues with relevant diverse needs.								
	3.3	Address discriminatory and offensive behavior in a professional manner as per organizational policy								
LO 4: Demonstrate leadership skills to foster a positive team culture.:	4.1	Identify leadership skills that enable the team to achieve outcomes								
	4.2	Demonstrate professional								

		and appropriate leadership behavior											
	4.3	Adapt leadership style to suit the organization's environment dynamics											
	4.4	Build trust and respect for the skills and contributions of fellow team members											
Learner's Signature:			Date:										
Assessor's Signature:			Date:										
IQA Signature (if sampled)			Date:										
EQA Signature (if sampled)			Date:										



UNIT 003: OCCUPATIONAL HEALTH AND SAFETY

Unit Reference Number:	AGR/FPS/003/L4
NSQ Level:	4
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	115

UNIT PURPOSE: This unit is designed to equip the learner with knowledge and skill on occupational health and safety in laboratories/stores/warehouses.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Recognition of Prior Learning and experience (RPL);
2. Witness testimony (WT);
3. Personal statement (PS)/ Reflective Practice (RP);
4. Work Product (WP) ;
5. Assignment (ASS);
6. Professional Discussion (PD);
7. Direct Observation (DO).

(This depends on the Trade Areas to be assessed)



Unit 003: Occupational Health and Safety

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Apply health, safety and hazards assessment risks.:	1.1	Identify health and safety hazards in the work area.		
	1.2	Assess risks according to workplace procedures		
	1.3	Implement control measures to address identified risks.		
	1.4	Conduct regular safety checks on the work environment).		
	1.5	Apply preventive actions to mitigate risks (e.g., fire, gas leaks, contamination.		
LO 2: Demonstrate workplace health and safety procedures.:	2.1	Use Personal Protective Equipment (PPE) according to manufacturer specifications and safety standards.		
	2.2	Maintain Personal Protective Equipment (PPE) according to manufacturer specifications and safety standards.		
	2.3	Ensure all staff follow health and safety requirements applicable to the workplace environment.		
	2.4	Address personal and workplace hygiene standards among the team		
	2.5	Work in accordance with organizational assigned job roles.		
LO 3: Respond to emergencies and incidents.:	3.1	Respond to emergency situations (e.g., fires, chemical spills, accidents) according to workplace emergency procedures.		
	3.2	Coordinate workplace emergencies effectively and promptly.		
	3.3	Participate in emergency drills and safety awareness		

		activities.										
LO 4: Maintain records to promote a safety culture.:	4.1	Complete workplace records accurately using clear terminology.										
	4.2	Record: • Safety incidents • Equipment maintenance according to traceability procedures.										
	4.3	Address positive workplace culture that values health and safety behaviors in accordance with organizational requirements.										
Learner's Signature:			Date:									
Assessor's Signature:			Date:									
IQA Signature (if sampled)			Date:									
EQA Signature (if sampled)			Date:									



UNIT 004: AGRICULTURAL COMMODITY FUMIGATION

Unit Reference Number:	AGR/FPS/004/L4
NSQ Level:	4
Credit Value:	8
Guided Learning Hours:	80
Practical Time:	140

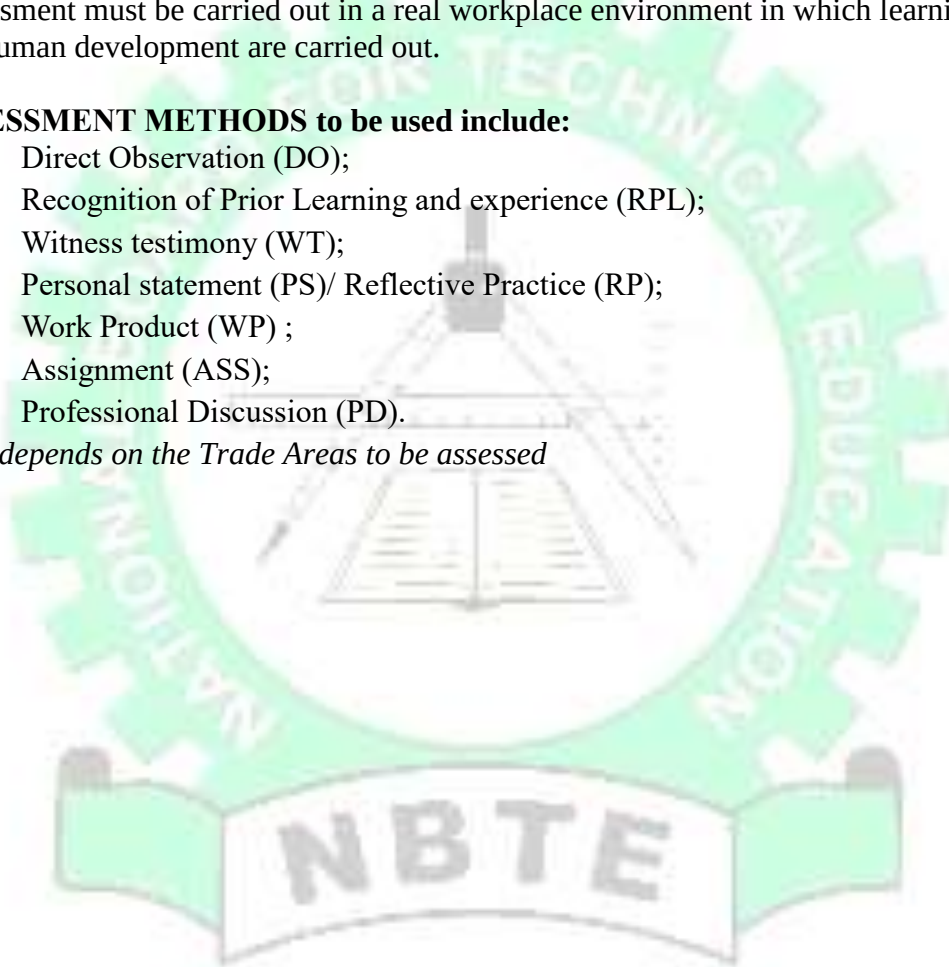
UNIT PURPOSE: This unit is designed to equip the learner with knowledge and skills to prepare the worksite for Agricultural Commodity Fumigation.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Recognition of Prior Learning and experience (RPL);
3. Witness testimony (WT);
4. Personal statement (PS)/ Reflective Practice (RP);
5. Work Product (WP) ;
6. Assignment (ASS);
7. Professional Discussion (PD).

(This depends on the Trade Areas to be assessed)



Unit 004: Agricultural Commodity Fumigation

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.				
LO 1: Assess the worksite for fumigation suitability.:	1.1	Identify types of commodity and target pests to be treated according to fumigation plan.									
	1.2	Assess site conditions to determine fumigation feasibility: • Enclosure integrity, • Sealing requirements, • Temperature, • Humidity, etc.									
	1.3	Calculate the volume of the fumigation enclosure to determine the required fumigant dosage.									
	1.4	Identify hazards according to safety data sheets (SDS) and workplace procedures.									
LO 2: Apply site security and safety measures.:	2.1	Erect appropriate signage and physical barriers to control access to the fumigation site during treatment.									
	2.2	Establish and communicate re-entry procedures and prescribed re-entry periods according to chemical label requirements.									
	2.3	Ensure site emergency procedures are in place, accessible, and ready for implementation.									
	2.4	Confirm that adequate Personal Protective Equipment (PPE) are available and in serviceable condition for all personnel.									
LO 3: Prepare the commodity	3.1	Ensure the commodity is properly stacked and									

and site for treatment.:		arranged to allow adequate gas penetration and circulation.											
	3.2	Position gas sampling lines and monitoring equipment at appropriate locations within the enclosure.											
	3.3	Seal the fumigation enclosure effectively using approved materials to contain the fumigant.											
	3.4	Verify required documentations are complete and accurate: Work orders, Fumigation plan, etc.											
LO 4: Document work-site preparation activities.:	4.1	Record details of the worksite assessment, including: • Conditions, • Identified hazards, • Risk control measures implemented, etc.											
	4.2	Document the positioning of monitoring equipment, sealing methods, and dosage calculations.											
	4.3	Complete workplace reports according to organizational procedures and regulatory requirements.											
	4.4	Report any deviations from the fumigation plan to the supervisor.											
Learner's Signature:			Date:										
Assessor's Signature:			Date:										
IQA Signature (if sampled)			Date:										
EQA Signature (if sampled)			Date:										

UNIT 005: PREPARATION OF FUMIGATION EQUIPMENT AND FUMIGANTS

Unit Reference Number:	AGR/FPS/005/L4
NSQ Level:	4
Credit Value:	8
Guided Learning Hours:	80
Practical Time:	145

UNIT PURPOSE: This unit is aimed to equip learners with knowledge and skills to prepare fumigation equipment to execute fumigation process safely and effectively.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Recognition of Prior Learning and experience (RPL);
3. Witness testimony (WT);
4. Personal statement (PS)/ Reflective Practice (RP);
5. Work Product (WP) ;
6. Assignment (ASS);
7. Professional Discussion (PD).



Unit 005: Preparation of Fumigation Equipment and Fumigants

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.	
LO 1: Identify fumigation equipment and fumigants.:	1.1	Select the appropriate application equipment for the specific fumigant and commodity type.			
	1.2	Check the operational effectiveness of all fumigation equipment according to manufacturer specifications: • Vaporizers, • Fans, • Gas detectors, etc.			
	1.3	Calibrate simple equipment to deliver the correct application rate as specified in the fumigation plans			
LO 2: Apply fumigant to monitor the treatment process.	2.1	Apply the fumigant according to the planned application method: • Chemical label instructions, etc. • Pest management strategy,			
	2.2	Monitor fumigant concentration levels throughout the exposure period using appropriate detection equipment			
	2.3	Record readings in 2.2 above at specified intervals.			
	2.4	Maintain fumigation conditions within the required parameters: • Temperature, • Sealing integrity, etc.			
	2.5	Respond to emergency situations according to workplace emergency procedures on: • Gas leaks, • Equipment failure, • Personnel exposure, etc.			
LO 3: Maintain	3.1	Use appropriate PPE for the fumigant being applied			

health and safety throughout fumigation.:		according to Safety Data Sheet (SDS) and chemical label requirements.																	
	3.2	Monitor the worksite to prevent unauthorized access																	
	3.3	Ensure safety controls remain effective during the exposure period.																	
	3.4	Implement corrective actions immediately if fumigant levels exceed safe limits .																	
	3.5	Implement corrective actions immediately if fumigant treatment deviates from the schedule.																	
	3.6	Notify appropriate personnel of any risks or deviations from the fumigation plan.																	
LO 4: Document fumigation application details.:	4.1	Record detailed data for each fumigation treatment, including: - Fumigant name, - Dosage, - Concentration readings (time, location, level), and - Temperature/humidity data,etc.																	
	4.2	Document: - Any deviations, - Corrective actions taken, - Safety incidents, etc																	
	4.3	Maintain records of: - Equipment calibration, - Gas detector verification, - Fumigant usage,etc.																	
	4.4	Complete fumigation reports according to workplace procedures																	
	4.5	Submit fumigation reports according to workplace procedures																	
	Learner's Signature:			Date:															
Assessor's Signature:			Date:																
IQA Signature (if sampled)			Date:																
EQA Signature (if sampled)			Date:																

UNIT 006: POST-TREATMENT MEASURES

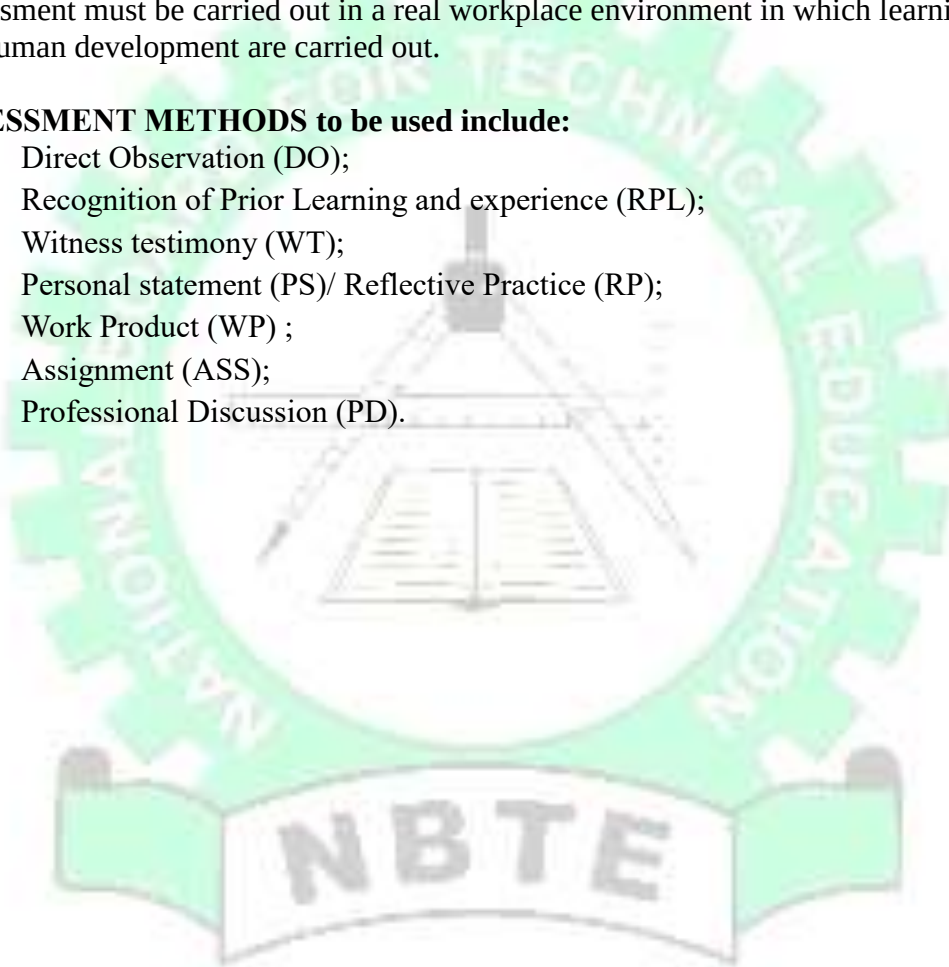
Unit Reference Number:	AGR/FPS/006/L4
NSQ Level:	4
Credit Value:	8
Guided Learning Hours:	80
Practical Time:	140

UNIT PURPOSE: This unit is aimed to equip learners with knowledge and skills to prepare fumigation and restore the site for safe access.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Recognition of Prior Learning and experience (RPL);
3. Witness testimony (WT);
4. Personal statement (PS)/ Reflective Practice (RP);
5. Work Product (WP) ;
6. Assignment (ASS);
7. Professional Discussion (PD).



Unit 006: Post-treatment Measures

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.					
LO 1: Maintain safe ventilation conditions.:	1.1	Establish appropriate conditions for ventilation to control health risks at the worksite											
	1.2	Follow the appropriate method for the safe release of fumigants in the worksite											
	1.3	Ventilate the worksite in a safe and controlled manner											
	1.4	Monitor ventilation process to ensure effective clearance of fumigant gases from the enclosure											
LO 2: Verify fumigant residue levels in commodities.:	2.1	Use appropriate detection equipment to check the residue level of fumigants in the fumigated commodities											
	2.2	Use the appropriate detection equipment to determine if fumigant residue levels meet acceptable safety standards											
	2.3	Follow appropriate control measures when fumigant levels are found to be higher than the accepted limit											
	2.4	Implement re-entry procedures and notify personnel of any residual risks or extended safety requirements											
LO 3: Restore the worksite for normal use:	3.1	Dispose empty/used fumigant containers, and waste safely from the worksite											
	3.2	Remove signage and											

		barriers according to site security measures.												
	3.3	Decontaminate and store equipment/PPE according to workplace procedures.												
	3.4	Restore the worksite for reuse according to organizational standards, ensuring all areas are safe for entry.												
LO 4: Document restoration and post-treatment activities.:	4.1	Record: • Ventilation procedures, • Aeration times, • Results of fumigant residue tests, etc.												
	4.2	Document the condition of the commodity after treatment.												
	4.3	Document any corrective actions taken in 4.2 above.												
	4.4	Complete post-treatment records on fumigation worksite .												
	4.5	Submit final fumigation reports to the appropriate authority .												
	4.6	Maintain records of waste disposal and equipment decontamination activities.												
Learner's Signature:			Date:											
Assessor's Signature:			Date:											
IQA Signature (if sampled)			Date:											
EQA Signature (if sampled)			Date:											

UNIT 007: PHYTOSANITARY SAFETY AND REGULATORY COMPLIANCE

Unit Reference Number: AGR/FPS/007/L4

NSQ Level: 4

Credit Value: 8

Guided Learning Hours: 80

Practical Time: 140

UNIT PURPOSE: This unit is aimed to equip learners with knowledge and skills to ensure compliance with National and International Phytosanitary regulations.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Direct Observation (DO);
2. Recognition of Prior Learning and experience (RPL);
3. Witness testimony (WT);
4. Personal statement (PS)/ Reflective Practice (RP);
5. Work Product (WP) ;
6. Assignment (ASS);
7. Professional Discussion (PD).



Unit 007: Phytosanitary Safety and Regulatory Compliance

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Use Phytosanitary safety protocols.:	1.1	Identify work health and safety legislative requirements relevant to fumigation and chemical use		
	1.2	Conduct regular safety checks on the work environment: • Fire, • Gas leaks, • Contamination, etc.		
	1.3	Carry out preventive actions to mitigate risks in 1.2 above.		
	1.4	Monitor personal and workplace hygiene standards among the team.		
	1.5	Carry out: • Safety inspections, • Emergency drills, • Safety awareness activities.		
	1.6	Document: • Safety inspections, • Emergency drills, • Safety awareness activities.		
LO 2: Implement biosecurity and phytosanitary standards.:	2.1	Identify biosecurity and legal requirements for the import/export of agricultural commodities.		
	2.2	Inspect commodities to identify potential biohazards.		
	2.3	Assess risks of infection and infestation in 2.2 above.		
	2.4	Implement treatment procedures as Standards for Phytosanitary Measures: • Fumigation, • Heat treatment, etc.		
	2.5	Arrange appropriate phytosanitary certification for treated commodities.		
LO 3: Maintain documentation and record keeping.:	3.1	Complete import/export documentation according to regulatory requirements.		
	3.2	Maintain accurate and traceable treatment records for		

		requirements according to workplace procedures.							
Carry out the following tasks: 1. Inspect and audit treatment facilities and documents. 2. Identify corrective actions for any non-conformity identified during audits. 3. Participate in safety improvement initiatives. 4. Stay informed of changes in phytosanitary regulations and best practices through continuous learning .	4.1	Inspect and audit treatment facilities and documents.							
	4.2	Identify corrective actions for any non-conformity identified during audits.							
	4.3	Participate in safety improvement initiatives.							
	4.4	Stay informed of changes in phytosanitary regulations and best practices through continuous learning .							
Signature:			Date:						
Supervisor's Signature:			Date:						
Signature (if sampled)			Date:						
Signature (if sampled)			Date:						

UNIT 008: QUALITY SYSTEMS AND COMPLIANCE MANAGEMENT

Unit Reference Number:	AGR/FPS/008/L4
NSQ Level:	4
Credit Value:	10
Guided Learning Hours:	100
Practical Time:	140

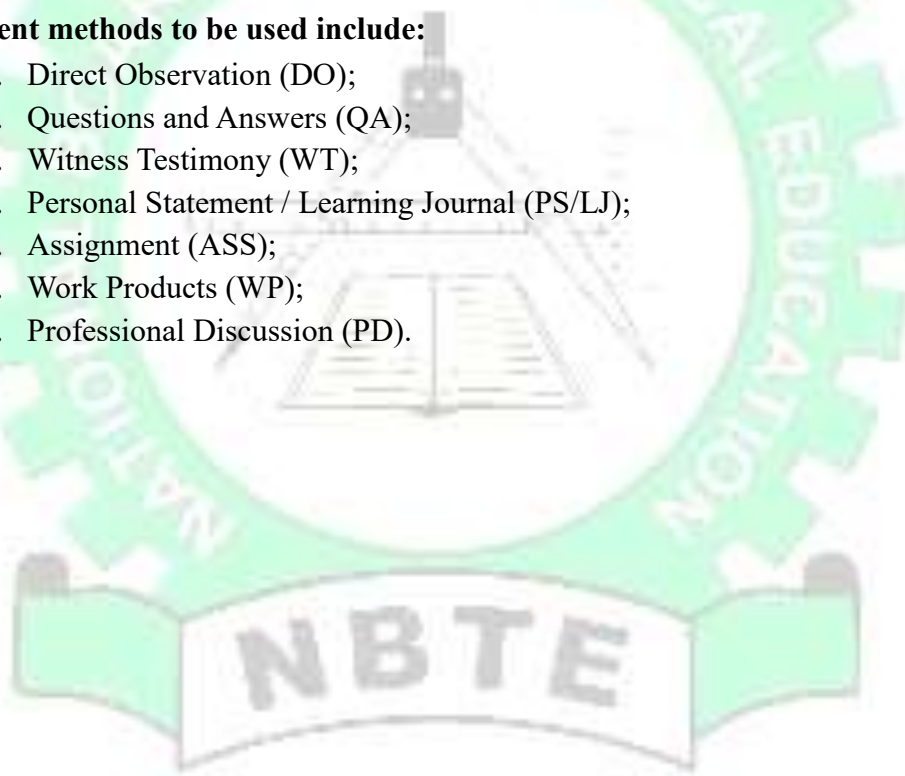
Unit Purpose: the purpose of this unit is to equip the learner with the knowledge and skills to maintain the quality and compliance system of a fumigation and phytosanitary certification function.

Unit assessment requirements / evidence requirements:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

Assessment methods to be used include:

1. Direct Observation (DO);
2. Questions and Answers (QA);
3. Witness Testimony (WT);
4. Personal Statement / Learning Journal (PS/LJ);
5. Assignment (ASS);
6. Work Products (WP);
7. Professional Discussion (PD).



UNIT 008: QUALITY SYSTEMS AND COMPLIANCE MANAGEMENT

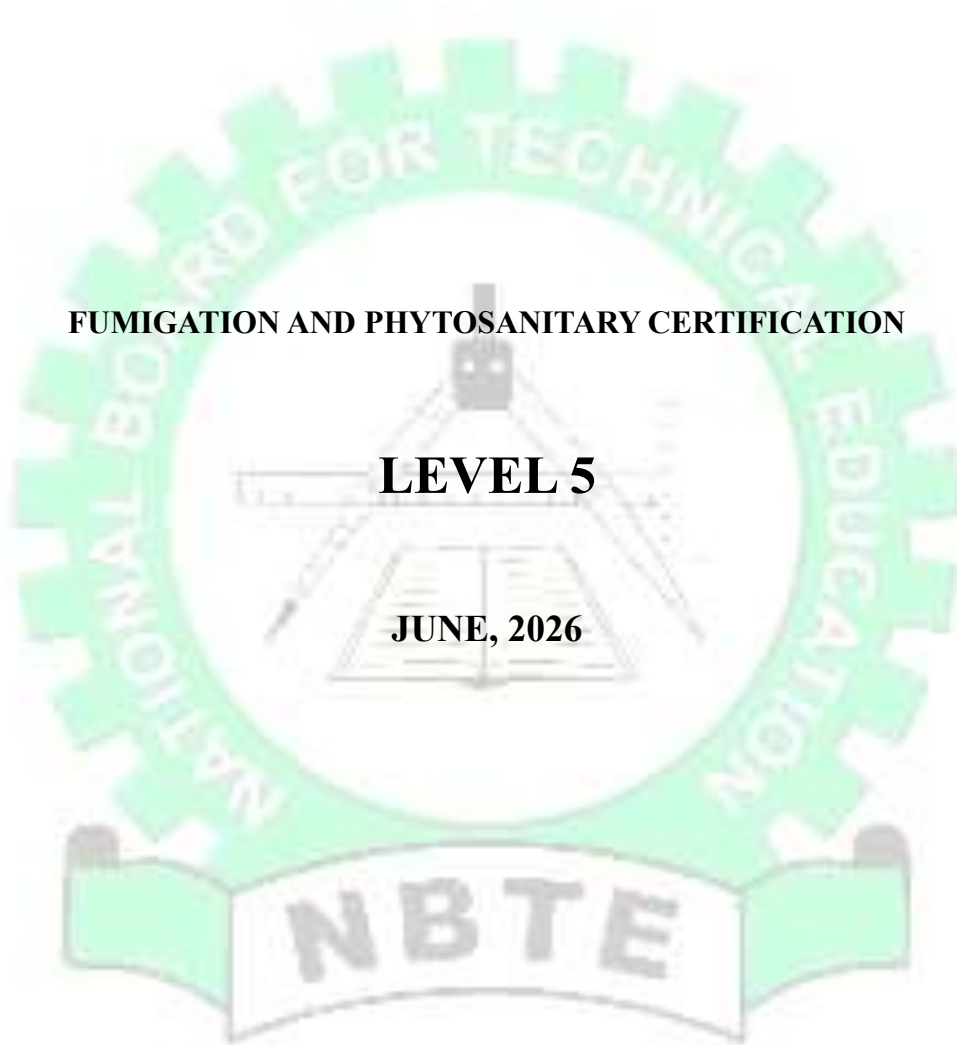
LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type		Evidence Ref. Page No.
LO 1: Implement Quality Management Systems (QMS):	1.1	Establish a QMS to ISO/IEC 17020/17065.			
	1.2	Maintain a QMS to ISO/IEC 17020/17065.			
	1.3	Coordinate document control, records and impartiality.			
	1.4	Coordinate review and resourcing of the system.			
LO 2: Coordinate Audit and Accreditation Maintenance.:	2.1	Supervise the internal and external audit programme.			
	2.2	Coordinate accreditation maintenance and assessment visits.			
	2.3	Coordinate audit findings to closure.			
LO 3: Implement Regulatory and Standards Compliance.:	3.1	Coordinate compliance with regulatory and international standards.			
	3.2	Control changes to standards and requirements.			
	3.3	Maintain compliance reporting to authorities.			
LO 4: Lead Continuous Improvement.:	4.1	Coordinate quality and compliance data and KPIs.			
	4.2	Lead root-cause analysis and improvement projects.			
	4.3	Report improvement outcomes.			
Learner's Signature:			Date:		
Assessor's Signature:			Date:		
IQA Signature (if sampled)			Date:		
EQA Signature (if sampled)			Date:		

NATIONAL SKILLS QUALIFICATIONS (NSQ)

FUMIGATION AND PHYTOSANITARY CERTIFICATION

LEVEL 5

JUNE, 2026



GENERAL INFORMATION

OVERVIEW

This qualification is designed for individuals who are interested in pursuing a career in Fumigation and Phytosanitary Certification for the award of National Skills Qualifications (NSQ)/National Occupational Standards (NOS). It is aimed at producing competencies necessary to support in Fumigation and Phytosanitary Certification **NSQ Level 5**.

This qualification is subject to review as and when the need arises.

QUALIFICATION PURPOSE

This qualification is targeted at developing competence in Fumigation and Phytosanitary Certification. This is focused on knowledge, practical skills, communication skills, health and safety, teamwork, and workplace experience.

QUALIFICATION REQUIREMENTS

All candidates must:

- At least twenty (20) years of age
- Medically fit
- Mentally fit (Mental alertness)
- A Nigerian citizen
- Other nationals should present International passport, residence permit or Parent work permit.
- Vetted
- Interest in agricultural production and related support operations
- Ability to carry out simple practical tasks under supervision.

QUALIFICATION OBJECTIVES

At the end of this qualification, the learner should be able to:

- i. Communicate effectively in the workplace.
- ii. Develop team spirit and maintain positive working relationships with colleagues.
- iii. Apply health and safety requirements associated with fumigation and phytosanitary treatment.
- iv. Implement phytosanitary strategies, policies, and accreditation leadership practices.
- v. Apply pest surveillance policies and technical standards in operational activities.
- vi. Analyse safety assurance governance systems and conduct systems audits.

NATIONAL SKILLS QUALIFICATION (NOS) TABLE

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours	Practical Learning Hours
1	AGR/FPS/001/L5	Communication in work	3	30	115
2	AGR/FPS/002/L5	Team work	3	30	115
3	AGR/FPS/003/L5	Occupational Health and Safety	3	30	115
4	AGR/FPS/004/L5	Phytosanitary Strategy, Policy and Accreditation Leadership	14	140	185
5	AGR/FPS/005/L5	Pest Surveillance Policy and Technical Standards	13	130	185
6	AGR/FPS/006/L5	Safety Assurance Governance and Systems Audit	12	120	185
7	AGR/FPS/007/L5	Quality Governance, Accreditation and Sector Standards	12	120	185
TOTAL			60	600	1085

QUALIFICATION STRUCTURE

This qualification comprises a total of seven (7) mandatory units with 60 Credit Value and 600 Guided Learning Hours across the full unit set. One (1) Credit is equivalent to ten (10) Guided Learning Hours (GLH). Guided Learning Hours are the time a learner spends in the classroom, workshop and laboratory of the Skills Training Centre (STC), being taught, instructed, supervised or assessed by a qualified trainer, facilitator or assessor.

In addition to the GLH, the qualification requires at least twice or thrice the GLH as practice time. Practice time is the time a learner is expected to spend applying the skills of each unit in a real workplace environment, carrying out the same tasks repeatedly until performance becomes consistent, accurate and habitual to the standard the qualification demands. It is undertaken under the guidance of a workplace supervisor, recorded in the learner's logbook and duly endorsed. Practice time is the principal setting where core assessment is conducted. It is through repeated performance in the workplace that a learner's achievement of the Learning Outcomes and Performance Criteria is judged and evidenced. Practice time is an additional requirement to GLH and does not replace them.

To achieve this qualification, the learner must complete all mandatory units, undertake the prescribed practice time, and accumulate the minimum credit value

approved by NBTE. Credit is awarded only when a learner has been assessed as competent against all Learning Outcomes and Performance Criteria of a unit.



GENERAL GUIDE

Unit title	Provides a clear explanation of the content of the unit.
Unit number	The unique number assigned to the unit.
Unit reference	The unique reference number given to each unit at qualification approval by NBTE
Unit level	Denotes the level of the unit within the National Vocational Qualification framework NSQF.
Unit credit value	The value that has been given to the unit based on the expected learning time for an average learner. 1 credit = 10 learning hours
Unit aim	Provides a brief outline of the unit content.
Learning outcome	A statement of what a learner will know, understand or be able to do, as a result of a process of learning.
Assessment criteria	A description of the requirements a learner must achieve to demonstrate that a learning outcome has been met.
Unit assessment guidance	Any additional guidance provided to support the assessment of the unit.
Unit guided learning hours	The average number of hours of supervised or directed study time or assessment required to achieve a qualification or unit of a qualification.

UNIT 001: COMMUNICATION IN WORK

Unit reference number:	AGR/FPS/001/L5
NSQ Level:	5
Credit value:	3
Guided learning hours:	30
Practical Time:	115

UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills to communicate effectively with team members

UNIT ASSESSMENT REQUIREMENTS/EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Recognition of Prior Learning and experience (RPL);
2. Witness testimony (WT);
3. Personal statement (PS)/ Reflective Practice (RP);
4. Work Product (WP) ;
5. Assignment (ASS);
6. Professional Discussion (PD);
7. Direct Observation (DO).



Unit 001: Communication in work place

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Identify Sources of communication and information in storage facilities and warehouses.	1.1	Identify different communication flow system in storage facilities and warehouses.								
	1.2	Identify communication sources to mitigate challenges in storage facilities and warehouses.								
	1.3	Document communication findings in 1.2 above.								
LO 2: Apply appropriate methods of communication in storage facilities and warehouses.:	2.1	Clarify communication achievements in storage facilities and warehouses.								
	2.2	Communicate relevant messages to workers on storage facilities and warehouses.								
	2.3	Ensure compliance with all communication used in storage facilities and warehouse.								
LO 3: Implement strategic communication tools in fumigation and phytosanitary Management System.	3.1	Explain fumigation and phytosanitary handling protocols to relevant teams.								
	3.2	Lead meetings that align supply chain actors on quality standards.								
	3.3	Draft clear reports on storage losses and corrective actions.								
	3.4	Train staff on communication etiquette on fumigation and phytosanitary .								
Learner's Signature:			Date:							
Assessor's Signature:			Date:							
IQA Signature (if sampled)			Date:							
EQA Signature (if sampled)			Date:							

UNIT 002: TEAM WORK

Unit Reference Number: AGR/FPS/002/L5

NSQ Level: 5

Credit Value: 3

Guided Learning Hours: 30

Practical Time: 115

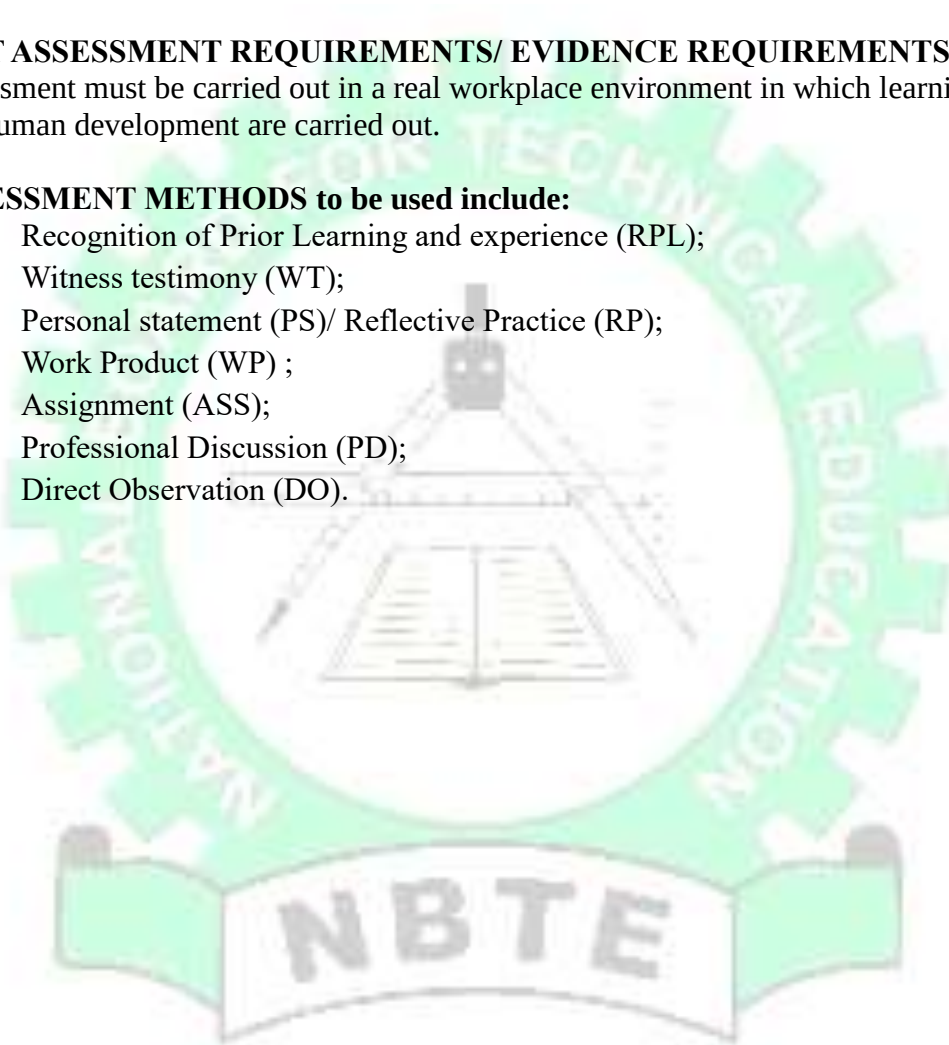
UNIT PURPOSE: This Unit is designed to equip the learner with knowledge and skills on how to work effectively among team members in laboratory/ store /warehouse.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Recognition of Prior Learning and experience (RPL);
2. Witness testimony (WT);
3. Personal statement (PS)/ Reflective Practice (RP);
4. Work Product (WP) ;
5. Assignment (ASS);
6. Professional Discussion (PD);
7. Direct Observation (DO).



Unit 002: Team work

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Coordinate teams across supply chains in managing storage facilities and warehouses.	1.1	Ensure accurate readings and recording of warehouse parameters by relevant officers in line with signed in and signed off procedure.		
	1.2	Coordinate the efficient use of critical resources to prevent equipment bottleneck.		
	1.3	Practice situational awareness in storage facilities and warehouses to prevent potential hazard.		
LO 2: Collaborate with staff in different storage facilities and warehouses.:	2.1	Collaborate effectively with staff and culls off where necessary.		
	2.2	Reassign roles accordingly within the team during peak working hours.		
	2.3	Clear aisle line safely to give access.		
LO 3: Maintain technical collaboration in Storage facilities and warehouses.:	3.1	Assign responsibility for checking and recording of parameters.		
	3.2	Provide proper spacing and exposure for uniform results among staffs.		
	3.3	Perform team-based calibration of equipment to ensure all shifts are working with the same technical specifications.		
	3.4	Arrange team members along working lines based on individual experiences and		

4.	4.3	Conduct effective performances review among staff.							
	4.4	Foster safety, quality and continuous improvements among team members.							
	4.5	Supervise labour effectively during peak and off seasons.							
Supervisor's Signature:			Date:						
Supervisor's Signature:			Date:						
Supervisor's Signature (if sampled)			Date:						
Supervisor's Signature (if sampled)			Date:						

UNIT 003: OCCUPATIONAL HEALTH AND SAFETY

Unit Reference Number:	AGR/FPS/003/L5
NSQ Level:	5
Credit Value:	3
Guided Learning Hours:	30
Practical Time:	115

UNIT PURPOSE: This unit is designed to equip the learner with knowledge and skill on occupational health and safety in laboratories/stores/warehouses.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Recognition of Prior Learning and experience (RPL);
2. Witness testimony (WT);
3. Personal statement (PS)/ Reflective Practice (RP);
4. Work Product (WP) ;
5. Assignment (ASS);
6. Professional Discussion (PD);
7. Direct Observation (DO).



Unit 003: Occupational Health and Safety

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Operate a strategy on safety first and quality metrics.	1.1	Demonstrate visible commitments to safety protocols (use of PPE, Glove, mask etc.)								
	1.2	Facilitate safety communication actions that address specific fumigation and phytosanitary risk.								
	1.3	Share fumigation and phytosanitary task to staff for optimal job performance.								
	1.4	Develop a modified duty plan for injured workers while recovering to reduce lost work days.								
LO 2: Coordinate risk management and hazard control.	2.1	Identify hidden risk and implement engineering /administrative controls before incident occurs.								
	2.2	Analyse line layouts to reduce repetitive strain injuries.								
	2.3	Assess and control risks during non-routine operations such as maintenance shut down or peak season.								
	2.4	Coordinate an effective response to major fumigation emergencies.								
LO 3: Maintain regulatory compliance and	3.1	Study local and international regulations regarding workers safety in storage facilities and warehouse.								

	are up to date								
3.4	Schedule regular inspection of critical safety devices.								
3.5	Verify inspection of critical safety device and properly documents them								
Inspector's Signature:		Date:							
Supervisor's Signature:		Date:							
Signature (if sampled)		Date:							
Signature (if sampled)		Date:							

UNIT 004: PHYTOSANITARY STRATEGY, POLICY AND ACCREDITATION LEADERSHIP

Unit Reference Number:	AGR/FPS/004/L5
NSQ Level:	5
Credit Value:	14
Guided Learning Hours:	140
Practical Time:	185

UNIT PURPOSE: This unit is designed to equip the learner with knowledge and skills in conformity with phytosanitary strategy, policies and accreditation in produce management.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Recognition of Prior Learning and experience (RPL);
2. Witness testimony (WT);
3. Personal statement (PS)/ Reflective Practice (RP);
4. Work Product (WP) ;
5. Assignment (ASS);
6. Professional Discussion (PD);
7. Direct Observation (DO).

Unit 004: Phytosanitary Strategy, Policy and Accreditation Leadership

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Interpret Strategies and Policies on phytosanitary.:	1.1	Identify fumigation/phytosanitary strategy and policy.								
	1.2	Align strategy to access national and international markets.								
	1.3	Implement fumigation/phytosanitary strategies in the above.								
LO 2: Recommend appropriate Accreditation Schemes.	2.1	Identify certification/accreditation schemes to meet with International Standard Organisation (ISO).								
	2.2	Identify scheme integrity, impartiality and oversight in 2.1 above								
	2.3	Recommend scheme-level decisions and sanctions.								
LO 3: Apply Standards and Stakeholder Engagement.	3.1	Engage with IPPC, WTO-SPS and other national standard bodies.								
	3.2	Represent the sector to government and trading partners.								
	3.3	Influence the development of standards and regulation.								
LO 4: Promote Innovation and Sector Capability.	4.1	Assist in research, innovation and technology adoption.								
	4.2	Assist in sector capability and professional pipeline.								

	4.3	Report impact on sector performance.										
Learner's Signature:			Date:									
Assessor's Signature:			Date:									
IQA Signature (if sampled)			Date:									
EQA Signature (if sampled)			Date:									



UNIT 005: PEST SURVEILLANCE POLICY AND TECHNICAL STANDARDS

Unit Reference Number: AGR/FPS/005/L5

NSQ Level: 5

Credit Value: 13

Guided Learning Hours: 130

Practical Time: 185

UNIT PURPOSE: This unit is aimed to equip learners with knowledge and skills to carry out pest surveillance policy and assist in developing technical standards in fumigation and phytosanitary certification.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Recognition of Prior Learning and experience (RPL);
2. Witness testimony (WT);
3. Personal statement (PS)/ Reflective Practice (RP);
4. Work Product (WP) ;
5. Assignment (ASS);
6. Professional Discussion (PD);
7. Direct Observation (DO).



Unit 005: Pest Surveillance Policy and Technical Standards

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.				
LO 1: Apply Surveillance and Pest-Risk Policy.:	1.1	Identify national/sector pest-surveillance policy.										
	1.2	Assist in the analysis of pest-risk prioritization frameworks.										
	1.3	Assist in aligning with IPPC and trading-partner requirements.										
LO 2: Implement Technical Standards and Methods.	2.1	Identify technical standards and approval methods.										
	2.2	Report observed validation and proficiency methods.										
	2.3	Assist in standardizing the report in 2.1 above.										
LO 3: Interpret Pest-Risk and Data Analysis.:	3.1	Show pest surveillance data.										
	3.2	Assist in pest-risk analysis and modelling.										
	3.3	Assist in the use of evidence to direct policy and response.										
LO 4: Coordinate Emergency Pest Response.	4.1	Assist in emergency pest-response and management strategy.										
	4.2	Supervise coordination of multi-agency response.										

	4.3	Suggest improved preparedness to pest management response.													
Learner's Signature:			Date:												
Assessor's Signature:			Date:												
IQA Signature (if sampled)			Date:												
EQA Signature (if sampled)			Date:												



UNIT 006: SAFETY ASSURANCE GOVERNANCE AND SYSTEMS AUDIT

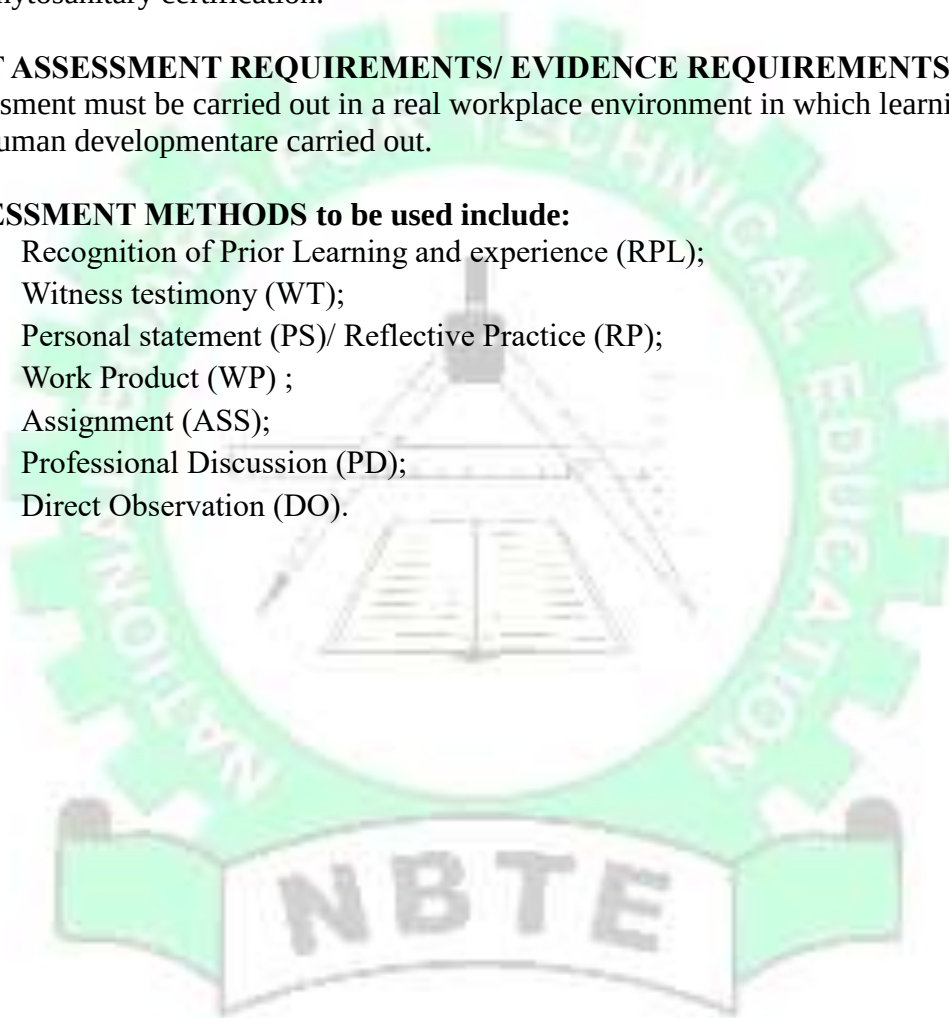
Unit Reference Number:	AGR/FPS/006/L5
NSQ Level:	5
Credit Value:	12
Guided Learning Hours:	120
Practical Time:	185

UNIT PURPOSE: The purpose of this unit is to equip learners with knowledge and skills to understand Safety Assurance Governance and Systems Audit in fumigation and phytosanitary certification.

UNIT ASSESSMENT REQUIREMENTS/ EVIDENCE REQUIREMENTS:
Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

ASSESSMENT METHODS to be used include:

1. Recognition of Prior Learning and experience (RPL);
2. Witness testimony (WT);
3. Personal statement (PS)/ Reflective Practice (RP);
4. Work Product (WP) ;
5. Assignment (ASS);
6. Professional Discussion (PD);
7. Direct Observation (DO).



UNIT 006: SAFETY ASSURANCE GOVERNANCE AND SYSTEMS AUDIT

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Apply Safety-Governance Framework requirement.:	1.1	Identify safety-governance and accountability framework.								
	1.2	Prioritize safety policy and objectives.								
	1.3	Align safety performance at board/sector level.								
LO 2: Coordinate Independent Assurance and Audit.	2.1	Assist in independent safety-systems audit programme.								
	2.2	Transmit audit quality report and findings.								
	2.3	Assist in corrective and improvement programmes.								
LO 3: Maintain Regulatory and Substance Stewardship.	3.1	Assist in regulatory compliance and reporting.								
	3.2	Maintain controlled-substance stewardship and security.								
	3.3	Control engagement with regulators and standards bodies.								
LO 4: Promote Sector Safety Capability.:	4.1	Identify sector safety-improvement strategy.								
	4.2	Assist in establishing competence and certification framework for safety.								
	4.3	Report sector safety impact.								

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQA Signature (if sampled)	Date:
EQA Signature (if sampled)	Date:



UNIT 007: QUALITY GOVERNANCE, ACCREDITATION AND SECTOR STANDARDS

Unit Reference Number:	AGR/FPS/007/L5
NSQ Level:	5
Credit Value:	12
Guided Learning Hours:	120
Practical Time:	185

Unit Purpose: The purpose of this unit is to equip the learner with the knowledge and skills in governing quality, accreditation and standards for fumigation and phytosanitary certification at organisational or sector level.

Unit assessment requirements / evidence requirements:

Assessment must be carried out in a real workplace environment in which learning and human development are carried out.

Assessment methods to be used include:

1. Recognition of Prior Learning and experience (RPL);
2. Witness testimony (WT);
3. Personal statement (PS)/ Reflective Practice (RP);
4. Work Product (WP) ;
5. Assignment (ASS);
6. Professional Discussion (PD);
7. Direct Observation (DO).

UNIT 007: QUALITY GOVERNANCE, ACCREDITATION AND SECTOR STANDARDS

LEARNING OUTCOME (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.	
LO 1: Implement a Quality-Governance Framework.:	1.1	Implement quality-governance and accountability framework						
	1.2	Assist in setting quality policies, objectives and assurance strategies.						
	1.3	Coordinate quality performance at unit level						
LO 2: Monitor Accreditation and Conformity Schemes.:	2.1	Coordinate accreditation or conformity schemes according to ISO/IEC 17011						
	2.2	Support scheme integrity, oversight and sanctions.						
	2.3	Relay scheme-level quality decisions to management.						
LO 3: Coordinate direct unit standards and recognition activities.:	3.1	Report Unit technical-standards development.						
	3.2	Support mutual-recognition and equivalence engagement.						
	3.3	Represent the unit on quality with partners and regulators.						
LO 4: Coordinate Sector Quality Strategy.:	4.1	Assist in formulating sector quality and improvement strategy.						
	4.2	Support sector-wide						

		data, benchmarking and Key Performance Indicators (KPIs).													
	4.3	Report sector quality impact and advise.													
Learner's Signature:			Date:												
Assessor's Signature:			Date:												
IQA Signature (if sampled)			Date:												
EQA Signature (if sampled)			Date:												



LIST OF EQUIPMENT

S/N	EQUIPMENT DESCRIPTION	QUANTITY
1.	Full-face respirator with fumigant-rated canisters	10
2.	Applicators, trays, recirculation (closed-loop) kit	10 each
3.	Calibration gas & kit for monitors	10 each
4.	Chemical-resistant gloves, coveralls, boots, eye protection	30 each
5.	Cleaning materials, spill-kit absorbents, waste-disposal bags.	100 each
6.	Consignment inspection tools (torch, lens, sampling)	10 each
7.	Data analytics / dashboard & reporting tools	1
8.	Data-charting / trend & resistance-analysis tools	1
9.	Prototype store / warehouse	1
10.	Designated fumigation area / chamber (controlled access)	1
11.	Dosage-calculation aids (volume measure, charts)	5
12.	Electronic phosphine/fumigant gas-detection monitor (alarmed)	1
13.	Equipment maintenance & calibration workshop	1
14.	Equipment maintenance bench, tools & service log	1
15.	Fumigant (aluminium/magnesium phosphide) — controlled stock	30 each
16.	Fumigant tablets/pellets	30 each
17.	Fumigation record / treatment-certificate templates	100
18.	Gas-concentration logger / monitoring record system	2
19.	Gas-proof sheeting, sealing tape, adhesive, sand snakes.	50 each
20.	Gas-tight fumigation enclosure / chamber / sheeting	1 each
21.	Grain probe / spear sampler & sieves	10 each
22.	Hand lens / magnifier (10×–20×)	30 each
23.	Infested and sound produce samples for pest-ID practice.	Assorted
24.	IPPC ISPM reference set (ISPM 7, 12, 15) & WTO-SPS texts	100
25.	ISO/IEC 17020 / 17065 / 17011 standards & QMS toolkit	100
26.	Leak-detection / gas-tightness test equipment	1
27.	Moisture meter & thermometer	10 each
28.	Monitoring record sheets / trap-count charts	30 each
29.	NAQS procedures & importing-country requirement databases (Software)	Access to data base
30.	Personal gas-alarm badges / dosimeters	5 each
31.	Pest-identification / laboratory bench	10 each
32.	Pest-risk analysis (PRA) & surveillance-data platforms (Software)	Access to data base
33.	Pheromone lures, trap inserts and sticky bases.	10 each
34.	Pheromone, probe, pitfall & surface traps	10 each
35.	Phytosanitary certificate stationery / e-cert system (Software)	Access to data base
36.	Quality / safety management system (QMS/SMS) (Software)	Access to data base
37.	Record sheets, monitoring charts, certificate stationery.	100 each
38.	Records / certification / documentation office	100 each
39.	Sample bags, jars, labels, marker pens, rearing jars.	50 each
40.	Self-contained breathing apparatus (SCBA), emergency entry	5
41.	Stereo microscope for species identification	10
42.	Storage-pest reference collection / ID keys / charts	30
43.	Traceability / digital record system (lot, consignment)	2

44.	Ventilated, lockable fumigant & cylinder store	1
45.	Ventilation / aeration equipment (fans, ducting)	5
46.	Warning signs, barrier tape, exclusion-zone cones	10 each



TEAM LIST (ZERO DRAFT)

S/N	NAME	INSTITUTIONS	EMAIL
1.	Prof. Idris M. Bugaje	Executive Secretary National Board for Technical Education, Kaduna	es@nbte.gov.ng
2.	Sheriff Balogun	Federation of Agric Commodities Association of Nigeria	sheriffbalogun@gmail.com
3.	Dr Ahmed Hassan Usman	Private/FS Research	Luahed 2007 yelici
4.	Bashir Barau Phd	Federal College of Agricultural Produce Technology, Kano.	bashbarau2008@gmail.com
5.	Dr Ibrahim Garba Halilu	Federal College of Agricultural Produce Technology, Kano	ighalilu@gmail.com
6.	Dr. O.O. Bello	Director Curriculum Development, National Board for Technical Education, Kaduna	engrbello@gmail.com
7.	Engr. S.M Yusuf	National Board for Technical Education, Kaduna	Smyusuf1967@gmail.com
8.	Dr. Kubura Jauro Danlawan	National Board for Technical Education, Kaduna	kuburagombe@yahoo.com
9.	Abdulrahman Idris	National Board for Technical Education, Kaduna.	Idrisabdulraham12@gmail.com
10.	Muhammad Aliyu Maiwada	National Board for Technical Education, Kaduna.	Mamaiwada1990@gmail.com
11.	Muhammad Umar Auna	National Board for Technical Education, Kaduna.	Muhammadauna.mu@gmail.com
12.	Jamila Jibrin	National Board for Technical Education, Kaduna	
13.	Nura Tijjani	National Board for Technical Education, Kaduna	Nuratijani ringim@gmail.com
14.	Zainab Abubakar Atiku	National Board for Technical Education, Kaduna	atikuazainab@gmail.com
15.	Zainab Ibrahim	National Board for	Zainabibrahim179@gmail.com

		Technical Education, Kaduna	m
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