



NATIONAL SKILLS QUALIFICATIONS

(NSQ)

FOR

CONSTRUCTION EQUIPMENT OPERATION

LEVEL ONE (1)

OCTOBER, 2022

OVERVIEW

This qualification is for those interested in developing a career in construction industry for the award of National Skills Qualifications (NSQ). It is aimed at producing Operator Helper for Construction Equipment at NSQ Level 1 with the competencies to perform daily routine checks and support the operator to drive, control, operate, and park construction equipment while complying with relevant regulatory, health and safety requirements.

This qualification is subject to review after five (5) years.

QUALIFICATION PURPOSE

This qualification is designed for individuals who are interested in developing a career in Construction Equipment Operations in the construction industry.

QUALIFICATION REQUIREMENTS

Candidates must:

- a. Be at least 18 years of age
- b. Be medically fit
- c. Be physically fit
- d. Be mentally fit
- e. Have achieved all the mandatory units in the qualification

Note:

This is a 19-credit unit qualification. To achieve this qualification; learners are required to achieve all credits units. Each Credit is equivalent to 10 Guided Learning Hours (GLH).

There are no optional units.

QUALIFICATION OBJECTIVE

At the end of the qualification, the Operator Helper should be able to:

- a. Communicate effectively in workplace
- b. Relate effectively in work environment
- c. Observe health and safety protocols
- d. Know Basic Construction Equipment
- e. Carryout Daily Routine check on Construction Equipment
- f. Carry out housekeeping at the workplace.
- g. Support the operator in the use of Construction Equipment before, during and after operations.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. Simulation is allowed in this unit and level.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Assignment (ASS)

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 Skills Qualifications 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 Purpose	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 learning process.
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.

Level 1 – Operator Helper

MANDATORY UNITS

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hour
1	CONST/CEO/001/L1	Occupational Health and Safety for Operator Helper	2	20
2	CONST/CEO/002/L1	Communication Skills for Operator Helper	2	20
3	CONST/CEO/003/L1	Team Work for Operator Helper	2	20
4	CONST/CEO/004/L1	Basic Construction Equipment	4	40
5	CONST/CEO/005/L1	Daily Routine Checks	5	50
6	CONST/CEO/006/L1	Support Service (Duties of Operator Helper)	6	60
	Total		21	210

CONST = Construction Sector

CEO = Construction Equipment Operator

UNIT 001: Occupational Health and Safety for Operator Helper

Unit reference number: CONST/CEO/001/L1

NSQ level: 1

Credit value: 2

Guided learning hours: 20

Unit Purpose: This unit is designed to provide the Operator Helper with the basic knowledge and skills required for health and safety in Construction Equipment Operation.

Unit Assessment Requirements/Evidence Requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. Simulation is allowed in this unit and level.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Assignment (ASS)

UNIT 001: Occupational Health and Safety for Operator Helper

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Safety Precaution in Workplace	1.1	List Personal Protective Equipment and wears <ul style="list-style-type: none"> • Nose mask • Ear muff • Overall • Hand-gloves • Safety boot • Eye goggles • Reflective jackets • Helmet 								
	1.2	Explain relevant safety precautions at: <ul style="list-style-type: none"> • Construction site • Yard 								
	1.3	State company policy for health and safety								
	1.4	Identify safety signs and symbols.								
LO 2: Occupational Hazards in workplace	2.1	Explain potential hazards at: <ul style="list-style-type: none"> • Site • workplace 								
	2.2	State causes of hazards in construction site								
	2.3	Explain how to report hazards to the site supervisor								
	2.4	Explain how to prevent hazards in a workplace								
LO 3: Accident in workplace	3.1	Explain common types of accident in workplace								
	3.2	List causes of accident in the workplace								

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
	3.3	List basic items in the First Aid Box: <ul style="list-style-type: none"> • Cotton Wool • Scissors • Iodine • Bandage • Paracetamol • Plaster, etc. 								
	3.4	Explain basic First Aid procedures in the event of an accident								
	3.5	Describe how to administer First Aid								
LO 4 Demonstrate Safe work practices	4.1	Wear PPE as per organizational procedures.								
	4.2	Carry out Operator Helper /banksman's role in line with safe work practices.								
	4.3	Comply with safety procedures when assisting operator.								

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

UNIT 002: Communication Skills for Operator Helper

Unit Reference Number: CONST/CEO/002/LI

NSQ level: 1

Credit value: 2

Guided learning hours: 20

Unit Purpose: This unit is designed to provide the Operator Helper with the basic knowledge and skills needed to communicate effectively in the workplace.

Unit Assessment Requirements/Evidence Requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Assignment (ASS)

UNIT 002: Communication Skills for Operator Helper

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.				
LO 1: Understand Communication in workplace	1.1	Explain communication in workplace: <ul style="list-style-type: none"> • peer to peer • Operator to Operator Helper • Operator Helper to operator • Operator Helper to other team members 									
	1.2	State the importance of communication in a work environment.									
	1.3	Identify sources of information in workplace									
LO 2: Understand methods of Communication in workplace	2.1	Explain the forms of communication <ul style="list-style-type: none"> • Verbal (spoken) • Non-verbal (written) • Signs • Signals • Symbols 									
	2.2	Explain channels of communication in Workplace									
	2.3	State the means of communication <ul style="list-style-type: none"> • Phone • Radio • Alarm, etc. 									

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 3: Understand elements of Communication in workplace	3.1	Explain how to receive written information								
	3.2	Explain how to follow verbal information								
	3.3	Describe how to use communication device to pass information								
LO 4: Communicate to Operator	4.1	Use basic signs to communicate with operator.								
	4.2	Use Radio to communicate with operator.								
	4.3	Use phone to communicate with operator								
	4.4	Pass information to operator.								

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

UNIT 003: Team Work for Operator Helper

Unit Reference Number: CONST/CEO/003/L1

NSQ level: 1

Credit value: 2

Guided learning hours: 20

Unit Purpose: This unit is designed to provide the trainee with the knowledge *and skills required to develop team spirit and positive relationship* in the workplace.

Unit Assessment Requirements/Evidence Requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. Simulation is allowed in this unit and level.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Assignment (ASS)

UNIT 003: Team Work for Operator Helper

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.				
LO 1: Know Team Work in Workplace	1.1	State the importance of team work in workplace.									
	1.2	Explain relationship in workplace: <ul style="list-style-type: none"> • Peer to peer • Subordinate to superior 									
	1.3	Identify inter-relationships between sections/units in workplace <ul style="list-style-type: none"> • Surveyors • Operators • Safety Officers, etc. 									
LO 2: Understand how to relate with Superior	2.1	Explain the need for good working relationship with superior									
	2.2	list the qualities that promote good working relationship: <ul style="list-style-type: none"> • Punctuality • Regularity • Honesty • Diligence • Loyalty • Respect • Effective communication, etc. 									
	2.3	State the qualities of a good Operator Helper: <ul style="list-style-type: none"> • Good attitude • Good observer • Safety conscious, etc. 									

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.				
LO 3: Understand how to relate with peers	3.1	State the importance of good relationship with your peers									
	3.2	Explain the need for mutual respect									
	3.3	List factors that can affect relationship with peers: <ul style="list-style-type: none"> • Impatience • Dishonesty • Disrespect • Lack of respect for diversity, etc. 									
	3.4	State ways to enhance good peer relationship: <ul style="list-style-type: none"> • Respect privacy • Be reliable and honest • Collaborate with one another • Avoid gossip, etc. 									
LO 4: Positive work relationship with team members	4.1	Relate with team members.									
	4.2	Assist Operator and team members.									
	4.3	Communicate information that may affect other workers on the site.									

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

UNIT 004: Basic Construction Equipment

Unit reference number: CONST/CEO/004/L1

NSQ level: 1

Credit value: 4

Guided learning hours: 40

Unit Purpose: This unit is designed to provide the Operator Helper with the basic knowledge and skills in recognizing construction equipment.

Unit Assessment Requirements/Evidence Requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. Simulation is allowed in this unit and level.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Assignment (ASS)

UNIT 004: Basic Construction Equipment

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Earthmoving equipment in construction.	1.1	Explain Earthmoving operation in construction.								
	1.2	List equipment used for Earthmoving operation: <ul style="list-style-type: none"> • Bulldozers • Excavators • Scrapers • Dumpers • Graders • Tippers, etc. 								
	1.3	Identify Earthmoving equipment that use attachment: <ul style="list-style-type: none"> • Excavators • Graders • Bulldozers 								
	1.4	State the safety precautions required for the use of earth moving equipment.								
	1.5	Recognize any three of the following earthmoving equipment: <ul style="list-style-type: none"> • Excavators • Scrapers • Dumpers • Graders • Tippers • Bulldozer 								
LO 2: Equipment used for	2.1	Explain hoisting operation in construction								
	2.2	List types of equipment used for hoisting operation: <ul style="list-style-type: none"> • Movable Pulley 								

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
Hoisting operation.		<ul style="list-style-type: none"> • Rope and Pulley • Chain Hoist • Mobile Crane • Electric Winch • Tower crane • Derrick Crane • Overhead Gantry Crane 								
	2.3	Explain the use of equipment in 2.2 above.								
	2.4	State safety precautions for the use of hoisting equipment.								
	2.5	Recognize Mobile crane and Tower crane								
LO 3: Equipment used for compaction, concreting and laying operation.	3.1	Explain compaction operation in construction								
	3.2	List types of equipment used in compacting and laying operation: <ul style="list-style-type: none"> • Vibrating Roller • Power Rammer • Paver, etc. 								
	3.3	Explain the use of equipment in 3.2 above.								
	3.4	State safety precautions for the use of compacting equipment.								
	3.5	List construction equipment used in concreting: <ul style="list-style-type: none"> • Concrete batching and mixing plant • Mobile concrete mixer 								

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
	3.6	Explain the use of equipment in 3.5 above								
	3.7	Recognize the following: <ul style="list-style-type: none"> • Vibrating Roller • Power Rammer • Paver • Mobile Concrete mixer 								

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

UNIT 005: Daily Routine Checks

Unit reference number: CONST/CEO/005/L1

NSQ level: 1

Credit value: 5

Guided learning hours: 50

Unit Purpose: This unit is designed to provide the trainee with the knowledge and skills to carryout daily routine checks on Construction Equipment.

Unit Assessment Requirements/Evidence Requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. Simulation is allowed in this unit and level.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Assignment (ASS)

UNIT 005: Daily Routine Checks

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.				
LO 1: Know daily routine checks on Construction Equipment	1.1	Explain daily routine Checks									
	1.2	State the importance of daily routine checks									
	1.3	Identify parts of equipment that require daily routine checks.									
	1.4	Explain how to carryout daily routine checks of Construction Equipment									
LO 2: Carryout daily routine checks of Construction Equipment	2.1	Check engine oil level									
	2.2	Check the radiator water level									
	2.3	Check transmission oil level									
	2.4	Check the battery									
	2.5	Check tyres/tracks									
	2.6	Check hose for leakage									
	2.7	Check the diesel level									
LO 3: Report observations to operator	3.1	State the importance of reporting faults/problems to the operator									
	3.2	List common faults/problems that can be observed from daily routine checks: <ul style="list-style-type: none"> • Low oil level • Low water level • Low battery • Low diesel • Low tyre pressure • Worn-out bolts/nuts • Damaged electrical wires • Damaged hose, etc. 									

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
	3.3	Explain the safety precautions observed in carryout daily routine checks								
	3.4	Report observation verbally to the operator.								

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

UNIT 006: Support Service (Duties of Operator Helper)

Unit reference number: CONST/CEO/006/L1

NSQ level: 1

Credit value: 6

Guided learning hours: 60

Unit Purpose: This unit is designed to provide the Operator Helper with the knowledge and skills to support the Operator in the use of equipment before, during and after operations.

Unit Assessment Requirements/Evidence Requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out. Simulation is allowed in this unit and level.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS) or Reflective Practice (RP)
5. Assignment (ASS)

UNIT 006: Support Service (Duties of Operator Helper)

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Understand support services to the operator for equipment before use	1.1	Explain the activities of support services for equipment before use: <ul style="list-style-type: none"> • Daily checks • Report observations • Identify materials/tools required for work. 								
	1.2	Perform daily routine checks.								
	1.3	Report observation from daily routine checks.								
	1.4	Select materials/tools required for work.								
	1.5	Apply health and safety precautions while carrying out daily routine checks.								
LO 2: Understand support services to operator for equipment while in use	2.1	Perform ground support to the operator: <ul style="list-style-type: none"> • Starting equipment • Moving equipment • Positioning equipment • Operating equipment 								
	2.2	Use signs or radio to communicate with operator.								
	2.3	Comply with health and safety precautions while performing ground support to the operator.								
LO 3: Understand support	3.1	Perform ground support to the operator while parking equipment after use.								

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
services to operator for equipment after use	3.2	Perform physical observation of equipment.								
	3.3	Report observation to the operator.								
	3.4	Remove debris on wheel/tracks								
	3.5	Carryout housekeeping for: <ul style="list-style-type: none"> • Tools • Construction Equipment • Environment • Self 								
	3.6	Dispose waste in accordance with environmental procedures.								
	3.7	Comply with health and safety precautions while carrying out support services after equipment use.								

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



LIST OF PARTICIPANTS FOR THE ZERO DRAFT WORKSHOP FOR NATIONAL OCCUPATIONAL STANDARD (NOS) FOR CONSTRUCTION EQUIPMENT OPERATION HELD AT NBTE CONSULT NO. 9 KAJURU CLOSE U/RIMI GRA, KADUNA

FROM 11th TO 17th SEPTEMBER, 2022

S/N	NAMES	Address	E-MAIL	PHONE NUMBER
1	Bldr. Onabekun Isiaka Adekunle Rep. Sector Skills Council (Chairman)	CORBON, Abuja	onabekunka@yahoo.com	07064420135
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LIST OF PARTICIPANTS AT THE CRITIQUE WORKSHOP FOR NATIONAL OCCUPATIONAL STANDARD (NOS) FOR CONSTRUCTION EQUIPMENT OPERATION HELD AT NBTE CONSULT NO. 9 KAJURU CLOSE U/RIMI GRA, KADUNA

FROM 3RD TO 8TH OCTOBER, 2022

S/N	NAME	ADDRESS	PHONE NO.	E-MAIL
1.	Ahmed Sambo Abdulhameed	C1, PHE, Kaduna Polytechnic, Quarters, Kaduna	08023320941	Asabdulhameed11@gmail.com
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LIST OF PARTICIPANTS AT THE VALIDATION WORKSHOP FOR NATIONAL OCCUPATIONAL STANDARD (NOS) FOR CONSTRUCTION EQUIPMENT OPERATION HELD AT NBTE CONSULT NO. 9 KAJURU CLOSE U/RIMI GRA, KADUNA ON 23RD -26TH OCTOBER, 2022

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