

NATIONAL SKILLS QUALIFICATIONS/NATIONAL OCCUPATIONAL STANDARDS

(NSQ/NOS)

STEEL FRAMEWORK

LEVEL I

LEVEL I FABRICATOR ASSISTANT

NATIONAL SKILLS QUALIFICATION GENERAL INFORMATION OVERVIEW

This qualification is for those interested in developing a career in steel framework in the construction industry for the award of National Skills Qualifications (NSQ). It is aimed at producing Fabricator Assistant at NSQ level 1, with the competencies to assist in reading drawings and carrying out steel framework fabrications.

QUALIFICATION PURPOSE

This qualification is designed to equip learner with knowledge and skills in installation and maintenance of poultry pen house systems.

QUALIFICATION REQUIREMENTS

All Candidates must:

- a. Be at least (15) years of age
- b. Be medically fit
- c. Be physically fit
- d. Be mentally fit (Mental alertness)
- e. Have achieved all the Safety and Health mandatory units in the qualification
- f. Be a Nigerian citizen
- g. Other nationals (International passport, residence permit)
- h. Be vetted

QUALIFICATION OBJECTIVES

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

- 1. Comply with health and safe work practices and instructions
- 2. Communicate effectively in work environment.
- 3. Work effectively in a team.
- 4. Comprehend basic welding science
- 5. Use of basic tools in welding and fabrication.
- 6. Measure and mark-out for welding operation.
- 7. Carry out cutting and grinding operations.
- 8. Sketch and interpret simple drawings for welding and fabrication.
- 9. Carry out basic manual metal arc (MMA) welding operations.

- 10. Carry out basic gas welding operations.
- 11. Carry out simple plastic welding operations.

UNIT ASSESSMENT/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. Work Product (WP)
- 6. Assignment (ASS)

NATIONAL SKILLS QUALIFICATION STEEL FRAMEWORK

LEVEL 1 – FABRICATOR ASSISTANT

Mandatory Units

Unit	Unit Reference	Unit Title	Credit	Guided
	Number		Value	Learning
				Hours
4	GONT/GENTALOOU/LA	77 11 6		20
1	CON/SFW/001/L1	Health, safety and environment	2	20
2	CON/SFW/002/L1	Communication system in the work	2	20
		environment		
3	CON/SFW/003/L1	Team work	2	20
4	CON/SFW/004/L1	Basic Welding Science	2	20
5	CON/SFW/005/L1	Basic Tools	2	20
6	CON/SFW/006/L1	Basic Drawing and Interpretation	2	20
7	CON/SFW/007/L1	Measurement and Marking Out	3	30
8	CON/SFW/008/L1	Cutting and Grinding Operation	3	30
9	CON/SFW/009/L1	Arc Welding for Steel Framework	3	30
		(MMA)		
	1	TOTAL	21	210

NOTE: This is a 21credit unit qualification. To achieve this qualification; Learners are required to achieve all credits units. Each Credit is equivalent to 10 Guided Learning Hours (GLH). The Total Learning Hours will therefore consist of the GLH *plus* the independent learning hours of the candidate, which is generally 50% - 150% of the GLH. *The actual Total Learning Hours for each Credit will then be a minimum of 15 hours*.

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 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 learning process.
Assessment criteria	A description of the requirements a learner must achieve to
	demonstrate that a learning outcome has been met.
Unit assessment	Any additional guidance provided to support the assessment of the
guidance	unit.
Unit guided learning	The average number of hours of supervised or directed study time
hours	or assessment required to achieve a qualification or unit of a
	qualification.

UNIT 001: HEALTH, SAFETY AND ENVIRONMENT

Unit Reference Number: CON/SFW/001/L1

NSQ Level:

Credit Value: 2

Guided Learning Hour: 20 hours

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills required for health and safety in work environment.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)

Unit 001: Health, Safety and Environment

Unit 001: Health, S		Performance Criteria: -	Tr.	; J	0.70			T	: 4	
Learning Objective										
(LO)		(PC) Type						Re Pa		
The learner will:		The learner can:							ge mb	r
LO 1:	1.1	Explain work environment						110		
Know work		Emplain work environment								
environment	1.2	Explain workshop layout:								
		Gangway								
		Work Area								
		• Store								
		Changing room								
		Entrance and Exit points								
		Muster Point								
		Emergency Exit								
	1.3	Identify safety signs and symbols in a								
		workshop								
	1.4	Identify the positions of the following in								
		the workshop:								
		First aid box								
		Fire extinguisher								
		Sand bucket								
		Mains switches								
LO 2:	2.1	Explain the importance of working safely								
Know safety rules and		in a work environment								
regulations in a workplace	2.2	List Personal Protective Equipment (PPE) in steel framework operations								
	2.3	Identify Personal Protective Equipment (PPE)								
	2.4	Explain causes of accident in the workshop • Horseplay • Spills • Poor housekeeping • Loose electrical fittings • Inappropriate use of tools and equipment Explain how to prevent hazards in work								
	2.3	environment								

	2.6	Demonstrate how to prevent hazards in work environment					
LO 3: Know first aid	3.1	Define First Aid					
procedure	3.2	List the items in the First Aid box					
	3.3	Explain how to administer simple First Aid.					
	3.4	Report accident or near-miss to appropriate authority					

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

UNIT 002: COMMUNICATION SYSTEM IN WORK ENVIRONMENT

Unit Reference Number: CON/SFW/002/L1

NSQ Level:

Credit Value: 2

Guided Learning Hour: 20 hours

Unit Purpose: This unit is designed to equip the learner with the basic knowledge and skills for effective communication in work place.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)

Unit 002: Communication System in Work Environment

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:	1	Evidence Type		Rea Pa		
LO 1: Communicate	1.1	Define communication in work environment.						
effectively in the work environment	1.2	List methods of communication in work environment.						
	1.3	Explain verbal communication in work environment						
	1.4	Explain non-verbal communication in work environment						
LO 2: Develop the ability to	2.1	List the sources of information in the work environment						
identify the source of information in a work environment	2.2	Explain the different information flow systems in a work environment						
environment	2.3	Report findings correctly as expected in the work environment						
LO 3:	3.1	List communication equipment						
Know the various communication means in a work environment	3.2	Use effectively the various communication equipment in a work environment						
	3.3	Apply appropriate workplace terminologies and jargons						
	3.4	Pass information correctly						

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

UNIT 003: TEAMWORK

Unit Reference Number: CON/SFW/003/L1

NSQ Level: 1

Credit Value: 2

Guided Learning Hour: 20 hours

Unit Purpose: This unit is designed to equip the learner with knowledge and skills required to develop team spirit and positive working relationship with co-workers.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)

Unit 003: Teamwork

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) Type The learner can:				Re Pa	ige	
LO 1:	1.1	Define teamwork				N	umbe	er
Develop good working								
relationship with co-	1.2	List the importance of teamwork						
workers	1.3	List the qualities of a team player						
LO 2:	2.1	List own roles and responsibilities						
Take responsibility		within a team.						
within the team	2.2	Perform tasks in line with the team rules and regulations.						
	2.3	Work well in a group.						
LO 3:	3.1	Explain code of conduct in work						
Comply with rule of		environment						
organisation	3.2	Use organisational code of practice						
	3.3	Work in line with organisational						
		standard.						

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

UNIT 004: BASIC WELDING SCIENCE

Unit Reference Number: CON/SFW/004/L1

NSQ Level:

Credit Value: 3

Guided Learning Hour: 30 Hours

Unit Purpose: This unit is designed to equip the learner with knowledge and skills on basic welding science.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)

Unit 004: Basic Welding Science

(LO) The learner will:		Performance Criteria: - (PC) The learner can:	Evidence Type			Evidence Ref. Page Number					
L01:	1.1	Define Electricity						T			
Know basic electricity	1.2	Identify sources of electricity									
	1.3	State different types of energy									
	1.4	State how energy is converted									
	1.5	Identify basic electrical components									
	1.6	Differentiate between AC and DC									
	1.7	Explain electrical safety									
LO2:	2.1	Define temperature									
	2.2	State the sources of heat									
Know heat and its effect	2.3	Explain heat transfer methods:									
		 Conduction 									
		Convection									
		Radiation									
	2.4	State the melting points of steel						_			
	2.5	Explain the following:						-			
	2.5	• Expansion									
		_									
		• Contraction									
		Heating									
		 Quenching 									
	2.6	Explain heat in welding									
	2.7	Explain:									
		 Conductors 									
		 Insulators 									
	2.8	Identify conductors									
	2.9	Identify Insulators									
LO 3:	3.1	Define matter									
Know change of state of matter	3.2	Identify the three main states of matter									
	3.3	Define change of state									
	3.4	Describe the types of changes of state:									
		Melting – solid to liquid									
		Freezing – liquid to solid									
		Evaporation/Boiling – liquid to gas									
		Draporation/Bonning inquite to gas									

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:	Evidence Type											Eviden Ref. Page Numbe				
LO 4:	4.1	Define metals and non-metals																
Know types of metals	4.2	Identify the main categories of metals:																
	4.3	Explain basic properties of metals																
	4.4	List the different shapes of metals product																
	4.5	Recognize common uses of metals																
	5.1	Define steel																
	5.2	List types of steel																
LO 5	5.3	Identify types of steel																
Know types of steel	5.4	Explain properties of steel																
	5.5	Identify different shape of steel product																
	5.6	Explain uses of steel																

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

UNIT 005: BASIC TOOLS FOR STEEL FABRICATION

Unit Reference Number: CON/SFW/005/L1

NSQ Level:

Credit Value: 3

Guided Learning Hour: 30 hours

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills to use basic tools for steel fabrication 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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)

Unit 005: Basic Tools for Steel Fabrication

Learning Outcome		Performance Criteria:	Ev	Evidence				nce					
(LO)		(PC)	Type			I'vne			Ref. Page				
The learner will:		The learner will:						Number					
LO 1:	1.1	Explain basic tools											
Know basic tools	1.2	List basic tools for each of the following											
		fitting operations:											
		Measuring											
		Marking Out											
		Cutting											
		Grinding											
		Handling											
		Sharpening											
		Shaping											
		Fastening tools											
	1.3	Use appropriate tools for measuring and marking - out operations											
	1.4	Use appropriate tools for cutting operation											
	1.5	Use appropriate tools for grinding											
	1.6	Use appropriate tools for fastening											
	1.7	Use appropriate tools for sharpening and shaping											
	1.8	Use appropriate tools for handling activities											
	1.9	Safe use of tools											
LO 2:	2.1	Check tools for defects before use.											
Know maintenance and care of tools	2.2	Describe pressure requirement on application of tools.											
	2.3	Identify appropriate lubricant for tools protection											
	2.4	Lubricate tools against corrosion											
	2.5	Store properly in: toolbox, metal cabinet holder (chisels), rack.											
	2.6	Clean tools after usage											

LO 3:	3.1	Explain how to fill tool requisition	
Know tools		form	
requisition record	3.2	State the procedure for tool	
		requisition	
	3.3	Request tools for cutting operation	
	3.4	Explain the process of tool issuing	
		and returning	
	3.5	Return tools after use	

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

UNIT 006: BASIC DRAWING AND INTERPRETATION

Unit Reference Number: CON/SFW/005/L1

NSQ Level:

Credit Value: 3

Guided Learning Hour: 30 hours

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills in sketching and interpretation of drawings.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 006: Basic Drawing and Interpretation

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:	Evidence Type						f. l	ence Page ber
LO 1:	1.1	Define drawing								
Know basic elements of drawing	1.2 1.3 1.4	Identify basic elements of a drawing: • Lines • Symbols • Dimensions • Scale • Title block • Views Explain simple isometric shapes Explain the use of angles and symbols in								
	1.5	drawing Sketch a simple drawing								
LO 2:	2.1	Explain dimensions								
Know simple dimensions in drawing.	2.2	List types of dimensions								
	2.3	Produce a simple drawing with dimensions								
LO 3: Know interpretation of simple drawing	3.1 3.2 3.3 3.4	Explain how to interpret simple drawing. Dimensions Symbols Reference points. Lines Views Obtain information on pattern from a given drawing Obtain information on dimension from a given drawing Obtain information on materials from a given drawing						_		

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

UNIT 007: MEASUREMENT AND MARKING OUT

Unit Reference Number: CON/SFW/007/L1

NSQ Level:

Credit Value: 3

Guided Learning Hour: 30 Hours

Unit Purpose: This unit is designed to equip learners with the basic knowledge and skills for measurement and marking-out 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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 007: Measurement and Marking-Out

Learning Outcome (LO)					ice		Evidence Ref.					
(LO)		(PC) Type										
The learner will:		The learner can:					Νι	ımb	er			
LO 1:	1.1	Define measurement										
Know measurement operation	1.2	Explain units of measurements							+	_		
	1.3	Convert imperial to metric for the following: length, mass, area, volume and temperature								=		
	1.4	Measure length using metric.										
	1.5	Identify common measuring tools										
	1.6	Measure length, diameter and thickness using appropriate tools.										
	1.7	Explain the importance of accuracy in measurement										
	1.8	Explain tolerance in measurement										
LO 2:	2.1	Define marking-out										
Know marking out operation	2.2	List basic marking out tools										
	2.3	List various methods of marking										
	2.4	Explain material preparation for marking out										
	2.5	Carryout marking out operation using appropriate tools.										
	2.6	Explain the use of template in marking-out operation										
LO 3:	3.1	Explain how to care for measuring tools										
Know care for	3.2	Carry out care of the measuring tools										
marking and	3.3	Explain how to care for marking-out tools										
measuring tools	3.4	Carry out care for marking out tools										

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

UNIT 008: CUTTING AND GRINDING OPERATIONS

Unit Reference Number: CON/SFW/008/L1

NSQ Level:

Credit Value: 3

Guided Learning Hour: 30 hours

Unit Purpose: This unit is designed to equip learners with basic knowledge and skills in cutting and grinding 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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 008: Cutting and Grinding Operations

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:	Evidence Type			e	Re Pa	
	11 5 1: 2		ı	П			_	
LO 1:	1.1	Explain cutting operation				+		
Know cutting	1.2	List various methods of cutting						
operations	1.3	List cutting tools						
	1.4	Explain the right cutting technique and posture						
	1.5	Explain how to prepare materials before cutting						
	1.6	Carry out cutting operation using appropriate tools						
	1.7	Describe safe use of cutting tools						
LO 2:	2.1	Define grinding operation						
Know grinding	2.2	Explain the importance of grinding						
operations		operations						
	2.3	List types of grinding operations				Ш		
	2.4	Identify parts of a grinder				Ш		
	2.5	List grinding tools				Ш		
	2.6	Perform manual grinding operation						
	2.7	Perform electrical grinding operation.						
	2.8	Identify grinding hazards and safety precautions						
	2.9	Describe safe use of grinding tools						
LO 3:	3.1	Explain the procedure for changing worn						
Know the proper		out cutting and grinding disc						
handling of cutting and grinding tools	3.2	Carry out replacement of worn out cutting and grinding disc						
3 · · · · · 3 · · · · · 3	3.3	Explain the care for various cutting tools				+		
	3.4	Explain the care for various grinding tools				+		
	J.T	Explain the care for various grinding tools	1	<u> </u>	1	11		

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

UNIT 009: ARC WELDING FOR STEEL FRAMEWORK

Unit Reference Number: CON/SFW/009/L1

NSQ Level:

Credit Value: 3

Guided Learning Hour: 30 hours

Unit Purpose: This unit is designed to equip the learners with the basic knowledge and skills of manual metal arc (MMA) welding process.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 009: Arc Welding for Steel Framework

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:		Evidence Type						Evidence Ref. Page Number		
LO 1: Know safety	1.1	Identify hazards in arc welding operations										
precautions in arc welding	1.2	List the Personal Protective Equipment's (PPE) used in arc welding processes										
	1.3	Describe the features of arc welding tools/equipment: AC/DC Welding Machine Hammer Chipping Hammer Welding Goggle Face Shield Face Mask Welding Tong Electrode Holder Welding Return Lead Workbench Wire Brush Jigs and Fixtures Grinders										
	1.4	Explain the safety precautions in handling arc welding equipment: • Avoid oil/grease on work piece • Ensure proper connection of power cables • Ensure avoidance of moisture/wet surface on machines and work environment • Ensure safe handling of machines and										
		equipment										
LO 2:	2.1	Define welding										
Know the fundamentals of arc welding processes	2.2	List types of arc welding processes such as: • Manual Metal Arc (MMA), • Tungsten Inert Gas (TIG), • Flux Cored Arc Welding (FCAW), • Metal-Inert Gas/Metal-Active Gas (MIG/MAG).										

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:		vide ype	ce	Re Pa		
	2.3 Explain the advantages and disadvantages of							
		arc welding processes in 2.2						
LO 3:	3.1							
Know MMA welding	3.2	Explain the operational features of types of						
machines	2.2	MMA (AC and DC) welding machines			Н			
	3.3	Explain the operational sequence of MMA welding machines						
	3.4	†			Н			
	3.5	Set appropriate current in 3.1						
	5.5	Set appropriate current in 3.1						
LO 4:	4.1	Explain welding consumables						
Know welding	4.2	List consumables for welding such as;						
consumables	7.2	• Electrodes,						
		• Cutting,						
		• Grinding						
		Polishing discs						
	4.3	Select appropriate welding consumables for			Н			
	1.5	a given task						
	4.4	Know how to store consumables correctly						
LO 5:	F 1	Tint to a second of the first of the second						
	5.1	List types of materials for arc welding such						
Know the types of materials		as:Sheet metal,						
materials		Sheet metal,Angle iron,						
		Angle fron,Flat bar,						
		• Rods						
		• Pipes						
	5.2	Identify types of materials for arc welding			H			
	5.3	List basic properties of materials			H			
	3.3	List easie properties of materials						
LO 6:	6.1	Set up MMA welding machine						
Know the use of MMA		1	<u> </u>					
welding Machine	6.2	Set up the appropriate variables in the						
o ====================================	6.2	Welding machine			$\vdash \vdash$			
	6.3	Prepare material for welding			$\vdash \vdash$		-	
	6.4	Select the appropriate electrodes for welding			\vdash			
	6.5	Carry out tack welding operation						
	6.6	Carry out complete welding operation						

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

LEVEL II



NATIONAL SKILLS QUALIFICATIONS/NATIONAL OCCUPATIONAL STANDARDS

(NSQ/NOS)

STEEL FRAMEWORK

LEVEL 2

SEPTEMBER, 2025

NATIONAL SKILLS QUALIFICATION

NSQ LEVEL 2- INTERMEDIATE FABRICATOR

GENERAL INFORMATION

OVERVIEW

This qualification is for those interested in developing a career in steel framework in the construction industry for the award of National Skills Qualifications (NSQ). It is aimed at producing Intermediate Fabricator at NSQ level II with the competencies to assist in reading drawings and carrying out steel framework fabrications.

This qualification is subject to review based on the requirements of the relevant sector.

QUALIFICATION PURPOSE

This qualification is for those interested in developing a career in steel framework in the construction industry for the award of National Skills Qualifications (NSQ). It is aimed at producing Intermediate Fabricator at NSQ level II, with the competencies to assist in reading drawings and carrying out steel framework fabrications.

QUALIFICATION REQUIREMENTS

All Candidates must:

- a. Be at least (15) years of age
- b. Be medically fit
- c. Be physically fit
- d. Be mentally fit (Mental alertness)
- e. Have achieved all the Safety and Health mandatory units in the qualification
- f. Be a Nigerian citizen
- g. Other nationals (International passport, residence permit)
- h. Be vetted

QUALIFICATION OBJECTIVES

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

- 1. Comply with safe work practices and instructions
- 2. Communicate effectively in work environment.
- 3. Work effectively in a team.
- 4. Draw and interpret fabrication drawing
- 5. Assist in the preparation and interpretation fabrication materials
- 6. Carry out Fabrication activities
- 7. Erect Structural Steel Assemblies at Sites

UNIT ASSESSMENT/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. Work Product (WP)
- 6. Assignment (ASS)

NATIONAL SKILLS QUALIFICATION

STEEL FRAMEWORK

NSQ LEVEL 2 – INTERMEDIATE FABRICATOR

Mandatory Units

Unit	Reference	Unit Title	Credit	Guided
	Number		Value	Learning Hours
1	CON/SFW/001/L2	Health, Safety and Environment	2	20
2	CON/SFW/002/L2	Communication system in the work environment	2	20
3	CON/SFW/003/L2	Teamwork	2	20
4	CON/SFW/004/L2	Fabrication Drawing	4	40
5	CON/SFW/005/L2	Fabrication Materials Preparation and Inspection	5	50
6	CON/SFW/006/L2	Fabrication Operations	5	50
7	CON/SFW/007/L2	Erect Structural Steel Assemblies At Site	5	50
Total			25	250

NOTE: This is a 25credit unit qualification. To achieve this qualification; Learners are required to achieve 20 Credits from the mandatory and at least 4 credits from the optional units. Each Credit is equivalent to 10 Guided Learning Hours (GLH). The Total Learning Hours will therefore consist of the GLH *plus* the independent learning hours of the candidate, which is generally 50% - 150% of the GLH. *The actual Total Learning Hours for each Credit will then be a minimum of 15 hours*.

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 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 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.

UNIT 001: HEALTH, SAFETY AND ENVIRONMENT

Unit Reference Number: CON/SFW/001/L2

NSQ Level: 2

Credit Value: 2

Guided Learning Hour: 20 hours

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills of health and safety in work environment.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)

Unit 001: Health, Safety and Environment

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:	Evidence Type		Re: Pa		
LO 1: Know health and safety	1.1	Familiarize yourself with work environment					
rules in work environment	1.2	Explain safe work practice when working with welding equipment.					
	1.3	List Personal Protective Equipment (PPE)					
	1.4	Identify Personal Protective Equipment (PPE)					
	1.5	List common hazards in welding operations					
	1.6	Use Personal Protective Equipment (PPE)					
	1.7	Explain preventive measures for 1.5 above					
	1.8	Explain how to respond to accident in work environment.					
	1.9	Explain accident report procedure					_
	1.10	Explain First Aid procedures					
LO 2: Know safety guidelines	2.1	Explain different regulations guiding welding practice (NIS ISO 15012-4)					
for welding operations	2.2	Identify safety signs and codes in the welding workshop					
	2.3	Observe health and safety signs always.					
	2.4	Work safely to protect self and others					
T.O.O.	2.1						
LO 3:	3.1	Explain classes of fire					
Know fire safety	3.2	Explain causes of fire outbreak in a work environment					
	3.3	Explain emergency and fire procedure					
	3.4	List methods of extinguishing fire					+
	3.5	List types of fire extinguishers					
	3.6	Demonstrate how to use appropriate fire extinguisher.					
	3.7	Follow fire and safety procedure					

LO 4: Know good housekeeping practices	4.1	 Explain good housekeeping procedures before welding operations: Ensure cleanliness of work environment; Proper positioning of tools, equipment and consumables; Ensure gangways are free from obstacles; Shield your work area; Proper illumination of the work area; Proper ventilation of the work area. 				
	4.2	 Explain good housekeeping procedures during welding operations: Ensure work environment is constantly clean; Ensure welding positioners are securely in place; Ensure work area is free from hot electrode stubs, work; piece, water, oil/grease, paint. Proper placement of electrical cables and gas hoses. 				
	4.3	 Explain good housekeeping procedures after welding operations: Assemble all tools, equipment and consumables after operations; Clean all tools, equipment and work area; Store tools and equipment appropriately; Switch off mains 				

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

UNIT 002: COMMUNICATION SYSTEM IN WORK ENVIRONMENT

Unit Reference Number: CON/SFW/002/L2

NSQ Level: 2

Credit Value: 2

Guided Learning Hour: 20 hours

Unit Purpose: This unit is designed to equip the learners with knowledge and skills for effective communication in 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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 002: Communication System in Work Environment

Learning Outcome (LO)		Performance Criteria: - (PC)			Evidence				iden	ce			
(LO)		(FC)	Type		Type		· -		Type		Ref. Page		
The learner will:		The learner can:						-	ge mbe	. w			
LO 1:	1.1	Explain communication in work						INU.		J1			
Know how to	1.1	environment.											
communicate effectively	1.2					Н			_	+			
in the work environment	1.2	Explain methods of communication in work environment.											
	1.3	Explain verbal communication in work				Н				+			
	1.5	environment											
	1.4	Explain non-verbal communication in				Н				+			
	1	work environment											
	1.5	Use verbal and non-verbal				П				+			
		means to convey necessary											
		information e.g.:											
		Body language,											
		• Signs, etc.											
	1.6	Interpret symbols and signs											
		Correctly											
LO 2:	2.1	Identify sources of information in the											
Develop the ability to		work environment											
identify sources of	2.2	Relate well with sources of information											
information in a work	2.3	Use the different information flow											
environment		systems in a work environment											
	2.4	Use information gathered to											
		address challenges in a work environment											
	2.5	Report findings correctly as expected in											
		the work environment							\perp	_			
10.2	2.1	Tarada da aradana ara				Щ							
LO 3:	5.1	Locate the various communication											
Know the use of various communication means	2.2	equipment in the work environment				\dashv		\dashv	+	_			
in a work environment	3.2	Use effectively the various											
in a work environment		communication equipment in a work environment											
	3.3	Pass information correctly using symbols,											
		signs and codes.											
	3.4	Obey instructions in line with ethics of the											
		work environment.											
									L	Ш_			

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

UNIT 003: TEAMWORK

Unit Reference Number: CON/SFW/003/L2

NSQ Level: 2

Credit Value: 2

Guided Learning Hour: 20 hours

Unit Purpose: This unit is designed to equip the learner with knowledge and skills required to develop team spirit and positive working relationship with co-workers.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)

Unit 003: Teamwork

Learning Outcome		Performance Criteria: -	E	vid	lenc	e		Ev	ide	nce				
(LO)		(PC)	Type		Type		Type Re		Type		Re	Ref.		
										Pa	ge			
The learner will:		The learner can:								Number				
LO 1:	1.1	Work positively with co-workers												
Know how to exhibit	1.2	Assist team members when required												
good working relationship with co-	1.3	Maintain open communication with coworkers												
workers	1.4	Report to the supervisor when request for assistance falls outside area of												
		responsibility.												
LO 2: Know how to take	2.1	Recognize own roles and responsibilities within a team or group.												
responsibility within the team	2.2	Perform individual tasks in line with the team rules and regulations.												
	2.3	Participate well in group work.												
LO 3: Know how to comply	3.1	Explain organisational code of Conduct												
with rules of	3.2	Use organisational code of practice												
organisation	3.3	Work in line with organisational standard.												

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

UNIT 004: FABRICATION DRAWING

Unit Reference Number: CON/SFW/004/L2

NSQ Level: 2

Credit Value: 4

Guided Learning Hour: 40 hours

Unit Purpose: This unit is designed to equip the learner with knowledge and skills in the use of fabrication drawings.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 004: Fabrication Drawing

Learning Outcome (LO)		Performance Criteria: - (PC)		Evidence Type			vide ef.	ence					
The learner will:		The learner can:								Page Number			
LO 1:	1.1	Explain fabrication drawing											
Know fabrication drawing	1.2	List the components of fabrication drawing											
	1.3	Explain how to interpret fabrication drawing											
LO 2: Know component	2.1	Explain component of drawing											
drawing.	2.2	Identify drawing components and its											
		dimensions from fabrication drawing											
	2.3	Produce simple component of drawing											
LO 3: Know how to interpret fabrication drawing	3.1	Obtain welding details from fabrication drawing											
justication arawing	3.2	Obtain fitting details from fabrication drawing											
	3.3	Obtain information on materials from fabrication drawing											
	3.4	Obtain information on reference documents and applicable standards											

Learner's	s Signature:	Date:
Assessor	's Signature:	Date:
IQA Si	gnature (if sampled)	Date:
EQA S	ignature (if sampled)	Date:

UNIT 005: FABRICATION MATERIALS PREPARATION AND INSPECTION

Unit Reference Number: CON/SFW/005/L2

NSQ Level: 2

Credit Value: 5

Guided Learning Hour: 50 hours

Unit Purpose: This unit is designed to equip the learner with knowledge and skills required in assisting in preparation and interpretation of fabrication materials.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 005: Fabrication Materials Preparation and Inspection

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:	Evidence Type			2	I F	Evid Ref. Page	<u>:</u>	
	1 1				<u> </u>	-	1	\ulli	IDCI	
LO 1:	1.1	Identify correct sections/pieces for								
Know fabrication		processing as per requirement								
materials	1.2	Assist in checking the stampings on the sections/pieces to confirm its dimensions								
	1.3	Assist in confirming that quality								
		inspection has been conducted for								
		required materials								
	1.4	Assist in checking the materials for any								
		physical damage like distortion,								
		corrosion, bending, cracks, etc.								
	1.5	Assist in ensuring that material sorting								
		and moving is done safely and								
		following standard practices								
	- 1									
LO 2:	2.1	Assist in checking the surface of the								
Know surface		material to identify the types of								
preparations of		impurities on it				-				
materials	2.2	Obtain approval for employing different								
		methods of cleaning from concerned supervisor								
	2.3	Identify the materials required for			-					
	2.3	cleaning and their quantities								
	2.4	Assist in checking the application of			-					
	2.4	procedures like heating, chemical								
		cleaning, scrubbing, water, jet, etc. as per								
		requirement								
	2.5	Assist in checking the markings prior to								
		commencing edge preparation								
		<i>U U 1 'P'' ''</i>								
LO 3:	3.1	Identify material for surface protection								
Know surface	3.2	Identify the right application for surface								
protection procedure		protection material								
	3.3	Apply surface protection material in								
		accordance to specification under								
		supervision								

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

UNIT 006: FABRICATION OPERATIONS

Unit reference number: CON/SFW/006/L2

NSQ level: 2

Credit value: 5

Guided learning hour: 50 hours

Unit Purpose: This unit is designed to equip the learner with knowledge and skills required to assist in fabrication 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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 006: Fabrication Operations

Learning Outcome (LO) The learner will:	Performance Criteria: - (PC) The learner can:		(PC)		Evidence Type		(PC) Typ								Evidence Ref. Page Number			
LO 1: Know joint preparation activities	1.1	Identify the components to be assembled as per drawings or specification																
preparation activities	1.2	Assist in selecting suitable jigs and fixtures for smooth execution of work																
	1.3	Assist in inspecting instruments, consumables, tools and equipment visually for their working conditions																
	1.4	Assist in inspecting materials before placing on fabrication platform for any distortions or deformities																
	1.5	Assist in performing calculation of dimensions from drawings if required																
	1.6	Assist in measuring the sections to identify the locations																
	1.7	Assist in ensuring that joints for connections of different components of assemblies are complying with the specifications and drawing																
LO 2: Know fitting	2.1	Carry out measurement and marking out for a given task																
operations	2.2	Carry out cutting operation of materials using appropriate tools for a given task																
	2.3	Carry out grinding operation using appropriate tools for a given task																
LO 3:	3.1	Describe drilling operations																
Know drilling	3.2	List drilling tools and accessories																
operations	3.3	Select appropriate drill bits for a given task																
	3.4	Carry out drilling operations								\perp								
	3.5	Assist in checking for defects associated with 3.4 above																
	3.6	Assist in carrying out corrective measures on identity defects																

Learning Outcome (LO)	S .		Evidence Type			e	Evidence Ref. Page				
The learner will:		The learner can:					Number				
	4.1	Differentiate between shop welding drawing and blueprint									
	4.2	List types of weld and welding symbols									
LO 4: Know welding	4.3	Use welding symbols for a given task									
operation	4.4	Identify standards applicable to welding drawings									
	4.5	Interpret various components of a welding drawing									
	4.6	List drawing terminologies									
	4.7	Use welding drawing terminologies for a given task									
	4.8	Explain weld joint									
	4.9	List types of weld joints									
	4.10	Carry out the following weld joints preparation: • Tee joints • Butt joints • Corner joints • Edge joints • Lap joints									
	4.11	State the need for joint preparations									
	4.12	Differentiate between square and grove edge preparations									

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

UNIT 007: ERECT STRUCTURAL FRAME STEEL AT SITE

Unit reference number: CON/SFW/007/L2

NSQ level: 2

Credit value: 5

Guided learning hour: 50 Hours

Unit Purpose: This unit is designed to equip the learner with the knowledge and skills required to erect structural steel frame at site.

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. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)
- 6. Work Products (WP)

Unit 007: Erect structural frame steel at sites

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:		Evidence Type		Re Pa	f.	ence	
LO 1:	1.1	Check that proper access is available							
Know preparatory works		to the erection site							
required to be completed prior to erection	1.2	Assist in checking for survey marks and reference points and							
	1.3	Carry out necessary measurements to ascertain exact location of erection							
	1.4	Assist in checking that base plates or other level correction provisions are available at the base of erection as per requirement							
	1.5	Assist in checking for provisions for bolting, welding and post-tensioning connections as per drawing							
	1.6	Assist to ensure that designed area of bearing in the platform or support is available for efficient erection of the components							
	1.7	Check the area of erection for desired accessibility of load lifting equipment							
102	2.1								
LO 2:	2.1	Check for hazardous situations at							
Know how to erect structural steel frame as		erection site, such as presence of live electric cables, absence of proper							
per the drawing		barricading, excessive wind speed.							
per me anamms	2.2	Report hazardous situations at erection site, if any.							
	2.3	Check availability of all materials and support equipment (identified by the supervisor and required to proceed with the work) and report any shortfalls							
	2.4	Explain factors that determine material selection for any specific task							
	2.5	Assist in installing shoring and bracing materials as specified							
	2.6	Pull, push and hold suspended							\dashv
		structural steel frame/components							
		approximately to their exact location							
		by hand or suitable means during							
		lowering of the load							
	2.7	Communicate efficiently to the							$\dashv \dashv$
		signalman or operator for precise							

Learning Outcome (LO) The learner will:		Performance Criteria: - (PC) The learner can:	vide ype	ee	Re Pa	
		movements required to place the object at an accurate location				
	2.8	Place the steel frame/components to their accurate locations efficiently and make required adjustments as per erection requirement				
2		Ensure proper alignment of the erected steel frame/component by carrying out required checks using appropriate measuring tools and instruments				
LO 3: Know riveting operations	3.1	Explain riveting as a joining process List tools and accessories used in riveting operation				
	3.3	Perform riveting operation		П		
	3.4	Assist in Checking for faults in riveting operation				
	3.5	Assist in Carry out corrective measures on riveting operation				
LO 4: Know bolts and nuts	4.1	Explain bolt and nut as a mechanical fastening method				
fastening operations	4.2	List types of bolts and nuts				
	4.3	List types of tools used for bolts and nuts fastening				
	4.4	Demonstrate the uses of bolts and nuts				

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

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