



COMPETENCY STANDARD FOR Masonry

Level: 3

(Construction Sector)

Competency Standard Code: CS-CON-MAS-L3-EN-V1



**National Skills Development Authority
Chief Adviser's Office
Government of the People's Republic of Bangladesh**

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This document has been developed by NSDA in association with Construction Sector, industry representatives, academia, related specialist, trainer and related employee.

Public and private institutions may use the information contained in this standard for activities benefitting Bangladesh.

Introduction

The NSDA aims to enhance an individual's employability by certifying completeness with skills. NSDA works to expand the skilling capacity of identified public and private training providers qualitatively and quantitatively. It also aims to establish and operationalize a responsive skills ecosystem and delivery mechanism through a combination of well-defined set of mechanisms and necessary technical supports.

Key priority economic growth sectors identified by the government have been targeted by NSDA to improve current job skills along with existing workforce to ensure required skills to industry standards. Training providers are encouraged and supported to work with industry to address identified skills and knowledge to enable industry growth and increased employment through the provision of market responsive inclusive skills training program. "**Masonry**" is selected as one of the priority occupations of Construction Sector. This standard is developed to adopt a demand driven approach to training with effective inputs from Industry Skills Councils (ISC's), employer associations and employers.

Generally, a competency standard informs curriculum, learning materials, assessment and certification of trainees enrolled in Skills Training. Trainees who successfully pass the assessment will receive a qualification in the National Skills Qualification Framework (NSQF) under Bangladesh National Qualification Framework and will be listed on the NSDA's online portal.

This competency standard is developed to improve skills and knowledge in accordance with the job roles, duties and tasks of the occupation and ensure that the required skills and knowledge are aligned to industry requirements. A series of stakeholder consultations, workshops were held to develop this document.

The document also details the format, sequencing, wording and layout of the Competency Standard for an occupation which is comprised of Units of Competence and its corresponding Elements.

Overview

A competency standard is a written specification of the knowledge, skills and attitudes required for the performance of an occupation, trade or job corresponding to the industry standard of performance required in the workplace.

The purpose of a competency standards is to:

- provide a consistent and reliable set of components for training, recognising and assessing people's skills, and may also have optional support materials
- enable industry recognised qualifications to be awarded through direct assessment of workplace competencies
- encourage the development and delivery of flexible training which suits individual and industry requirements
- encourage learning and assessment in a work-related environment which leads to verifiable workplace outcomes

Competency standards are developed by a working group comprised of representative from NSDA, Key Institutions, ISC, and industry experts to identify the competencies required of an occupation in Informal Sector.

Competency standards describe the skills, knowledge and attitude needed to perform effectively in the workplace. CS acknowledge that people can achieve technical and vocational competency in many ways by emphasizing what the learner can do, not how or where they learned to do it.

With competency standards, training and assessment may be conducted at the workplace or at training institute or any combination of these.

Competency standards consist of a number of units of competency. A unit of competency describes a distinct work activity that would normally be undertaken by one person in accordance with industry standards.

Units of competency are documented in a standard format that comprises of:

- unit title
- nominal duration
- unit code
- unit descriptor
- elements and performance criteria
- variables and range statement
- curricular content guide
- assessment evidence guide

Together, all the parts of a unit of competency:

- describe a work activity
- guide the assessor to determine whether the candidate is competent or not yet competent

The ensuing sections of this document comprise of a description of the relevant occupation, trade or job with all the key components of a unit of competency, including:

- a chart with an overview of all Units of Competency for the relevant occupation, trade or job including the Unit Codes and the Unit of Competency titles and corresponding Elements
- the Competency Standard that includes the Unit of Competency, Unit Descriptor, Elements and Performance Criteria, Range of Variables, Curricular Content Guide and Assessment Evidence Guide.

Competency Standards for National Skill Certificate – 3 in Masonry in Construction Sector

Level Descriptors of Skills Sector, BNQF Level 1-6

Level & Job classification	Knowledge Domain	Skills Domain	Responsibility Domain
6-Mid-Level Manager/ Sub Assistant Engineer	Comprehensive actual and theoretical knowledge within a specific work or study area with an awareness of the validity and limits of that knowledge, able to analyse, compare, relate and evaluate.	Specialised and wider range of cognitive and practical skills required to provide leadership in the development of creative solutions to defined problems. Communicate professional issues and solutions to the team and to external partners/users.	Work under broad guidance and self-motivation to execute strategic and operational plan/s. Lead lower-level management. Diagnose and resolve problems within and among work groups.
5-Supervisor	Broad knowledge of the underlying, concepts, principles, and processes in a specific work or study area, able to scrutinize and break information into parts by identifying motives or causes.	Broad range of cognitive and practical skills required to generate solutions to specific problems in one or more work or study areas. Communicate practice-related problems and possible solutions to external partners.	Work under guidance of management and self-direction to resolve specific issues. Lead and take responsibility for the work and actions of group/team members. Bridge between management.
4-Highly Skilled Worker	Broader knowledge of the underlying, concepts, principles, and processes in a specific work or study area, able to solve problems to new situations by comparing and applying acquired knowledge.	A range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying the full range of methods, tools, materials and information. Communicate using technical terminology and IT technology with partners and users as per workplace requirements.	Work under minimal supervision in specific contexts in response to workplace requirements. Resolve technical issues in response to workplace requirements and lead/guide a team/ group.
3-Skilled Worker	Moderately broad knowledge in a specific work or study area, able to perceive ideas and abstract from drawing and design according to workplace requirements.	Basic cognitive and practical skills required to use relevant information in order to carry out tasks and to solve routine problems using simple rules and tools. Communicate with his team and limited external partners upholding the values, nature and culture of the workplace	Work or study under supervision with considerable autonomy. Participate in teams and responsible for group coordination.
2-Semi Skilled Worker	Basic understanding of underpinning knowledge in a specific work or study area, able to interpret and apply common occupational terms and instructions.	Skills required to carry out simple tasks, communicate with his team in the workplace presenting and discussing results of his work with required clarity.	Work or study under supervision in a structured context with limited scope of manipulation
1 –Basic Skilled Worker	Elementary understanding of ability to interpret the underpinning knowledge in a specific study area, able to interpret common occupational terms and instructions.	Specific Basic skills required to carry out simple tasks. Interpret occupational terms and present the results of own work within guided work environment/ under supervision.	Work under direct supervision in a structured context with limited range of responsibilities.

List of Abbreviations

CS	- Competency Standard
ISC	- Industry Skills Council
CONISC	- Construction Industry Skills Councils
NSDA	- National Skills Development Authority
BNQF	- Bangladesh National Qualification Framework
OSH	- Occupational Safety and Health
PPE	- Personal Protective Equipment
SCVC	- Standards and Curriculum Validation Committee
STP	- Skills Training Provider
SOP	- Standard Operating Procedure
UoC	- Unit of Competency
MAS	- Masonry
4 iR	- 4 th Industrial Revolution

Approved by
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**Competency Standards for National Skill Certificate, Level-3 in
Masonry in Construction Sector
Course Structure**

Sl. No.	Unit code and Title		UOC Level	Nominal (Hours)
Generic Units of Competencies				35
1.	GU-03-L2-V1	Communicate in the Workplace	2	15
2.	GU-04-L2-V1	Follow Health Hygiene Procedure	2	20
Occupation Specific Units of Competencies				305
3.	OU-CON-MAS-0-L3-V1	Apply Safety Procedures in Masonry Work	3	20
4.	OU-CON-MAS-02-L3-V1	Perform Bricks, Blocks and Stone Masonry Work	3	90
5.	OU-CON-MAS-03-L3-V1	Carryout Higher Order Plastering Work on Concrete and Masonry Surfaces	3	75
6.	OU-CON-MAS-04-L3-V1	Carryout Reinforced Concrete Work	3	60
7.	OU-CON-MAS-05-L3-V1	Construct Circular Brick Wall & Hollow Block Walls.	3	60
Total Learning Hours				340
Workplace Visit				20
Total Nominal Hours				360

Units & Elements at Glance

Generic Competencies (35 Hours)

Code	Unit of competency	Elements of competency	Duration (hours)
GU-03-L2-V1	Communicate in the Workplace	<ol style="list-style-type: none"> 1. Receive verbal instructions 2. Interpret verbal and written information/instruction 3. Convey instructions using verbal and written forms of communication 4. Complete written documentation 5. Participate in workplace meetings and discussions 	15
GU-04-L2-V1	Follow Health Hygiene Procedure	<ol style="list-style-type: none"> 1. Interpret healthy living 2. Provide Education and counselling on hygiene and sanitation 3. Perform personal hygiene and well grooming standards 4. Identify and prevent hygiene risks 	20
Total hours			35

Occupation specific competencies (305 Hours)

Code	Unit of competency	Elements of competency	Duration (Hours)
OU-CON-MAS-0-L3-V1	Apply Safety Procedures in Masonry Work	<ol style="list-style-type: none"> 1. Interpret safety policies and procedures 2. Plan and prepare for safe work practices 3. Use safe work practices 4. Work with ladder and platform 5. Respond to emergencies 6. Perform green Practice in the workplace 	30
OU-CON-MAS-02-L3-V1	Perform Bricks, Blocks and Stone Masonry Work	<ol style="list-style-type: none"> 1. Prepare for work 2. Prepare mortar 3. Prepare and use Aluminium scaffolds 4. Perform bricks masonry work 5. Perform blocks masonry work 6. Perform stone masonry work 7. Maintain workplace, tools, equipment and materials 	90
OU-CON-MAS-03-L3-V1	Carryout Higher Order Plastering Work on Concrete and Masonry Surfaces	<ol style="list-style-type: none"> 1. prepare for work 2. Prepare surface for plastering 3. Prepare mortar 4. Plaster the surface 5. Perform fair facing plastering 6. Prepare masonry surface for damp proofing or waterproofing 7. Apply damp proofing or waterproofing materials 	75
OU-CON-MAS-04-L3-V1	Carryout Reinforced Concrete Work	<ol style="list-style-type: none"> 1. Prepare for work 2. Prepare formworks 3. Perform basic bar bending and binding 4. Prepare concrete mix 5. Place concrete into the formwork 6. Perform curing 	60
OU-CON-MAS-05-L3-V1	Construct Circular Brick Wall & Hollow Block Walls.	<ol style="list-style-type: none"> 1. prepare for work 2. Prepare for circular brick wall and hollow block wall. 3. Construct circular brick wall 4. Construct hollow block wall. 5. Maintain workplace, tools, equipment and materials 	60
Total Hours			305

Generic Units of Competencies

Unit code and Title	GU-03-L2-V1: Communicate in the Workplace
Unit Descriptor	<p>This unit covers the knowledge, skills and attitudes (KSAs) required to communicating in the workplace.</p> <p>It includes the receiving verbal instructions, interpreting verbal and written information/instruction, conveying instructions using verbal and written forms of communication, completing written documentation and participating in workplace meetings and discussions.</p>
Nominal Hours	15 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables.
1. Receive verbal instructions	1.1 Instructions are accessed and interpreted; 1.2 Questions are asked to clarify understanding or gain more information; 1.3 Information/instruction is recorded.
2. Interpret verbal and written information/ instruction	2.1 <u>Written instructions</u> are interpreted; 2.2 Work <u>signage's</u> are properly responded; 2.3 Routine written instructions are followed in sequence; 2.4 Feedback is given to workplace supervisor.
3. Convey instructions using verbal and written forms of communication	3.1 Relevant <u>communication</u> methods are used to transmit instructions; 3.2 Appropriate non-verbal communication is used; 3.3 Channels of communication are identified and followed; 3.4 Communication <u>tools and equipment</u> are operated and faults are identified and reported; 3.5 Information is conveyed using appropriate <u>forms.</u>
4 Complete written documentation	4.1 All required <u>documentation</u> is completed; 4.2 Workplace data are recorded; 4.3 Written information/instruction is passed to personnel.
5 Participate in work place meetings and discussions	5.1 Meetings are attended regularly and on time; 5.2 Meeting inputs are consistent with the meeting purpose and established protocols; 5.3 Opinions are expressed without interruption; 5.4 Meeting outputs are processed and implemented.
Range of Variables	
Variable	Range (may include but not limited to):

1. Written instructions	1.1 Supervisor's/Manager's Instructions 1.2 Memoranda 1.3 Rules and Regulations 1.4 Signage 1.5 Approved Work Plan 1.6 External communications
2. Signage	2.1 On-site direction signs 2.2 Common site warnings 2.3 Location signs 2.4 Traffic signs
3. Communication	3.1 Verbal instructions 3.2 Written instructions 3.3 Online communication
4. Tools and equipment	4.1 Telephone 4.2 Mobile Phone 4.3 Fax machines 4.4 Two-way radio 4.5 Computers 4.6 Forms 4.7 Memo
5. Forms	5.1 Memorandum 5.2 Requisitioning Form 5.3 Personnel Form 5.4 Safety Report Form
6. Documentation	6.1. Reports (Monthly, Quarterly, Half-Yearly, Annual) 6.2. Plans (Strategic Plan, Operational Plan, Monthly Schedule) 6.3. Monitoring and Evaluation Report 6.4. Minutes of Meetings
Evidence Guide The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the Unit of Competency	
1. Critical Aspects of Competency	Assessment required evidence that the candidate: 1.1 demonstrated knowledge of workplace procedures in receiving, interpreting and conveying verbal & written communication. 1.2 satisfied the requirements mentioned in the Performance Criteria and Range of Variables.
2. Underpinning Knowledge	2.1 Workplace Communication Policies, Standards and Procedures 2.2 Verbal and Non-verbal communication 2.3 Modes of Communication 2.4 Communication Equipment: Types, Uses and Faults 2.5 Channels of Communication
3. Underpinning Skills	3.1 Receiving verbal instructions.

	3.2 Interpreting verbal and written information/ instruction 3.3 Conveying instructions using verbal and written forms of communication 3.4 Completing written documentation 3.5 Participating in workplace meetings and discussions
4. Underpinning Attitude	4.1 Commitment to occupational health and safety 4.2 Environmental concerns 4.3 Eagerness to learn 4.4 Tidiness and timeliness 4.5 Respect for rights of peers and seniors in workplace 4.6 Communication with peers and seniors in workplace
5. Resource Implications	The following resources must be provided: 5.1 Pens 5.2 Telephone 5.3 Computer 5.4 Writing materials 5.5 Online communication
6. Methods of Assessment	Methods of assessment may include but not limited to: 6.1 Demonstration 6.2 Oral questioning 6.3 Written test 6.4 Portfolio
7. Context of Assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre; 7.2 Assessment should be done by a NSDA certified/nominated assessor.
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), the National Quality Assurance Body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of qualification under BNQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

Unit Code and Title	GU-04-L2-V1: Follow Health Hygiene Procedure
Unit Descriptor	<p>This unit covers the skills, knowledge and attitude required in working in the informal sector.</p> <p>It includes the tasks of interpreting healthy living, providing education and counselling on hygiene and sanitation, performing personal hygiene and well grooming standards and identifying and preventing hygiene risks</p>
Nominal Hours	20 Hours
Elements of Competency	Performance Criteria <u>Bold and Underlined</u> terms are elaborated in the Range of Variables.
1. Interpret healthy living	1.1 Physical, mental and social health conditions are interpreted; 1.2 <u>Keys for healthy living</u> are interpreted.
2. Provide Education and counselling on hygiene and sanitation	2.1 Hygiene is defined; 2.2 Importance of hygiene is recognized; 2.3 <u>Components of personal hygiene</u> are interpreted; 2.4 <u>Community hygiene</u> is interpreted; 2.5 Sanitation is described; 2.6 Importance of safe water and sanitation are interpreted; 2.7 Counselling is provided for using safe water and sanitation.
3. Perform personal hygiene and well grooming standards	3.1 Personal hygiene and well grooming are practiced in line with workplace health and safety requirements; 3.2 Health conditions and / or illness are reported as required by the workplace; 3.3 <u>Personal Protective Equipment (PPE)</u> are used and applied according to the situation; 3.4 Movement around the workplace are conducted in accordance with the procedure.
4. Identify and prevent hygiene risks	4.1 Potential <u>hygiene risks</u> are identified as per workplace hygiene procedures; 4.2 Actions are taken to <u>minimize or remove risks</u> within the scope of individual responsibility as per workplace requirements; 4.3 Hygiene risks are reported to the appropriate person, which are beyond the control of individual staff members.
Range of Variables	
Variables	Range (may include but not limited to):
1. Keys for healthy living	1.1 Healthy environment 1.2 Healthy food habits 1.3 Sleeping regularly 1.4 Abstinence from tobacco and alcohol/substance abuse 1.5 Taking regular physical exercise 1.6 Recreational activities 1.7 Reduce stress

2. Components of personal hygiene	2.1 Hand washing 2.2 Skin hygiene 2.3 Regular bathing 2.4 Hair and Nail cutting 2.5 Clean wearable 2.6 Not to spit anywhere 2.6 Usage of sandal/foot hygiene 2.7 Menstrual hygiene 2.8 Waste disposal
3. Community hygiene	3.1 Safe water supply 3.2 Sanitation facilities 3.3 Hygiene promotion 3.4 Waste management 3.5 Vector control 3.6 Environment hygiene 3.7 Health education 3.8 Monitoring
4. Personal protective equipment (PPE)	4.1 Protective gown/apron 4.2 Gloves 4.3 Face mask 4.4 Eye protection 4.5 Hair net 4.6 Raincoat / umbrella 4.7 Sun cap 4.8 Walking shoes
5. Hygiene risks	5.1 Bacterial and other contamination arising from poor handling of food 5.2 Poor personal hygiene practices 5.3 Poor work practices 5.4 Cleaning 5.5 Housekeeping 5.6 Food handling 5.7 Vermin 5.8 Airborne dust 5.9 Water contamination 5.10 Cross-contamination through inappropriate cleaning practices 5.11 Inappropriate handling of potentially infectious linen 5.12 Contaminated wastes such as blood and body secretions 5.13 Disposal of garbage and contaminated or potentially contaminated wastes.
6. Minimize or remove risks	6.1 Regular Handwashing 6.2 Personal Protective Equipment (PPE) 6.3 Clean work attire 6.4 Sanitize work areas 6.5 Proper waste disposal 6.6 Avoid cross-contamination

	6.7 Stay informed 6.8 Continuous training 6.9 Self-monitoring 6.10 Regular health check-up 6.11 Report hazards 6.12 Awareness buildup 6.13 Clear Communication
Evidence Guide The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the Unit of Competency.	
1. Critical aspects of competency	Assessment required evidence that the candidate: 1.1 interpreted healthy living; 1.2 recognized the importance of hygiene; 1.3 interpreted components of hygiene; and 1.4 interpreted safe water and sanitation 1.5 practiced personal hygiene and grooming standard 1.6 identified and prevented hygiene risks.
2. Underpinning knowledge	2.1 Healthy life and wellbeing. 2.2 Hygiene. 2.3 Personal hygiene 2.4 Community hygiene 2.5 Components of personal hygiene 2.6 Hygien risks 2.7 Minimize or remove risks 2.8 Sanitation. 2.9 Cleaning, waste segregation and disposal practices.
3. Underpinning skills	3.1 Interpreting healthy life 3.2 Recognizing importance of sanitation 3.3 Interpreting components of hygiene 3.4 Interpreting safe water and sanitation 3.5 Using Personal Protective Equipment (PPE) 3.6 Practicing personal hygiene and well grooming in line with the workplace health and safety requirements 3.7 Controlling the measures for minimizing food and water contamination 3.8 Collecting waste: recycling, handling and disposal.
4. Underpinning attitudes	4.1 Commitment to occupational safety and health. 4.2 Promptness in carrying out activities. 4.3 Sincere and honest to duties. 4.4 Eagerness to learn. 4.5 Tidiness and timeliness. 4.6 Environmental concerns. 4.7 Respect for rights of peers and seniors at workplace. 4.8 Communicate with peers and seniors at workplace.
	The following resources must be available:

5. Resource implications	5.1 Workplace (actual or simulated); 5.2 Required tools & equipment; 5.3 Facilities and relevant accessories for care giving; 5.4 Required teaching aids; and 5.5 Learning materials.
6. Methods of assessment	Methods of assessment may include but not limited to: 6.1 written test; 6.2 demonstration; 6.3 oral questioning; and 6.4 portfolio.
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre; 7.2 Assessment should be done by NSDA certified/ nominated assessor.
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), the National Quality Assurance Body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of qualification under BNQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

Occupation Specific Units of Competencies

Unit Code and Title	OU-CON-MAS-01-L3-V1: Apply Safety Procedures in Masonry Work
Unit Descriptor	<p>This unit covers the knowledge, skills and attitudes required in applying safety procedures in masonry work.</p> <p>It specifically includes interpreting safety policies and procedures, planning and preparing for safe work practices, following safe work practices, working with ladder and scaffolding, responding to emergencies and performing green practice in the workplace.</p>
Nominal Hours	30 Hours
Elements of Competency	<p>Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables</p>
1. Interpret safety policies and procedures	<p>1.1. <u>Safety policies</u> of construction work are accessed and stated;</p> <p>1.2. <u>Safe operating procedures</u> of construction work are interpreted;</p> <p>1.3. <u>Safety signs and symbols</u> are identified.</p>
2. Plan and prepare for safe work practices	<p>2.1 <u>Personal protective equipment (PPE)</u> is selected and used as per job requirement;</p> <p>2.2 Emergency response, evacuation procedures are interpreted and followed;</p> <p>2.3 Barricades, hoardings and signage are erected as per job requirement.</p>
3. Follow safe work practices	<p>3.1 Work is carried out safely accordance with safety requirements;</p> <p>3.2 <u>Hazards</u> are identified and assessed ;</p> <p>3.3 Hazards are mitigated for safe operation;</p> <p>3.4 Site safety responsibilities are interpreted;</p> <p>3.5 <u>Fire-fighting equipment</u> is identified and operated as per requirement;</p> <p>3.6 First aid procedures are applied as per requirement;</p>
4. Work with ladder and scaffolding	<p>4.1 Ladder is placed in safe location free from sleeper substances</p> <p>4.2 Scaffolding is used following <u>safety tags</u>;</p> <p>4.3 Overhead power lines and other obstructions are followed during erect scaffolding;</p> <p>4.4 Masonry work position is set according to height and prevent hazards;</p> <p>4.5 <u>Fall arrest equipment</u> is used accordance with safety guidelines.</p>
5. Respond to emergencies	<p>5.1 Alarms and warning devices are responded;</p> <p>5.2 Workplace <u>emergency procedures</u> are followed;</p> <p>5.3 <u>Contingency measures</u> are recognized and followed in accordance with organization procedures.</p>
6. Perform green Practice in the workplace	<p>6.1 Energy Consumption is reduced by adapting <u>energy saving process</u>;</p> <p>6.2 Paper use is minimized by applying minimization process</p>

	6.3 <u>Recycling process</u> is encouraged; 6.4 Waste reduction is practiced to keep minimum waste; 6.5 Water conservation system is implemented; 6.6 Green culture is created by conducting awareness development training.
Range of Variables	
Variables	Range (may include but not limited to):
1. Safety policies	1.1. Bangladesh standards for safety 1.2. Fire safety rules and regulations 1.3. Code of practice 1.4. Construction industry guidelines 1.5. BNBC
2. Safe operating procedures	2.1 Orientation on emergency exits 2.2 Safe location 2.3 Rescue procedure 2.4 Use of fire extinguishers 2.5 Fire escape 2.6 Emergency procedures 2.7 First aid procedures 2.8 Tagging procedures 2.9 Use of PPE 2.10 Safety procedures for hazardous substances
3. Safety signs and symbols	3.1 Direction signs (Access, exit, emergency exit, etc.) 3.2 First aid signs 3.3 Danger tags 3.4 Hazard signs 3.5 Safety tags 3.6 Warning signs
4. Personal protective equipment (PPE)	4.1 Mask 4.2 Apron/high visible vest 4.3 Hand gloves 4.4 Ear plug 4.5 Safety boots 4.6 Anchor safety harness 4.7 Safety goggles 4.8 Safety helmet
5. Hazard	5.1 Chemical hazards 5.2 Biological hazards 5.3 Physical Hazards 5.4 Mechanical and electrical hazard 5.5 Mental hazard 5.6 Ergonomic hazard
6. Firefighting equipment	6.1 Fire extinguisher 6.2 Fire blanket

	6.3 Hose pipe reel 6.4 Fire hydrant valve 6.5 Fire hose 6.6 Firefighting ladder
7. Safety tags	7.1 Do not use 7.2 Damage equipment 7.3 Faulty machinery 7.4 Equipment Locked Out 7.5 High Voltage 7.6 Asbestos Hazard 7.7 Safe to use
8. Fall arrest equipment	8.1 Lifeline 8.2 Body harness 8.3 Fall arrester 8.4 Rope catcher 8.5 Self-retractable fall arrest equipment 8.6 Safety net 8.7 Toe board
9. Emergency Procedures	9.1 Firefighting 9.2 Earthquake 9.3 Medical and first aid 9.4 Evacuation
10. Contingency measures	10.1 Evacuation 10.2 Isolation 10.3 Decontamination
11. Energy saving process	11.1 Use energy-efficient lighting (e.g., LED bulbs). 11.2 Switch off light and equipment when not in use. 11.3 Use natural light wherever possible.
12. Recycling process	12.1 Set up labelled recycling bins (paper, plastic, metal, e-waste). 12.2 Educate employees on what can and cannot be recycled. 12.3 Recycle toner cartridges, batteries, and electronics responsibly.
Evidence Guide The evidence must be authentic, valid, sufficient, reliable, consistent, recent and meet all requirements of current version of the Unit of Competency	
1. Critical aspects of competency	Assessment required evidence that the candidate: 1.1 followed safety signs and symbols 1.2 used personal protective equipment (PPE) 1.3 maintained workplace clear and tidy 1.4 followed safe work practices 1.5 followed emergency procedures 1.6 followed contingency measures 1.7 used fall arrest equipment

	1.8 worked with ladder and scaffolding 1.9 performed green practice in the workplace
2. Underpinning knowledge	2.1 Safety policies 2.2 Safe operating procedures 2.3 Safety signs and symbols 2.4 Hazard 2.5 Types of Firefighting equipment 2.6 Safety tags 2.7 Emergency procedures 2.8 Types of hazards 2.9 Hazard control procedure 2.10 PPE and there uses 2.11 Personal hygiene practice 2.12 First aid procedure 2.13 Masonry tools, equipment and materials handling procedure 2.14 Necessity to use scaffolding 2.15 Safe use of scaffolding 2.16 Procedure of work at height 2.17 Green practice 2.18 Necessity to use fall arrest equipment 2.19 Contingency measures 2.20 Energy saving process 2.21 Minimization process 2.22 Recycling process 2.23 Waste reduction process 2.24 Water conservation system
3. Underpinning skills	3.1 Accessing OHS policies 3.2 Handling Masonry materials, tools and equipment 3.3 Using ladder and scaffolding 3.4 Responding to emergency procedures 3.5 Handling firefighting equipment 3.6 Communication skills 3.7 Problem solving skills
4. Required attitude	4.1 Commitment to occupational health and safety 4.2 Sincere and honest to duties 4.3 Promptness in carrying out activities 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Communicate with peers and seniors in workplace
5. Resource implications	5.1 Equipment and outfits appropriate in applying safety measures 5.2 Tools, materials and documentation required to complete the proposed activities. 5.3 OHS Policies and Procedures

6. Methods of assessment	<p>Assessment methods may include but not limited to:</p> <p>6.1 Written test</p> <p>6.2 Demonstration</p> <p>6.3 Oral Questioning</p> <p>6.4 Portfolio</p>
7. Context of assessment	<p>7.1 Competency assessment must be done in NSDA accredited assessment centre;</p> <p>7.2 Assessment should be done by a NSDA certified/nominated assessor.</p>
<p>Accreditation Requirements</p> <p>Training Providers must be accredited by National Skills Development Authority (NSDA), the National Quality Assurance Body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of qualification under BNQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.</p>	

Unit Code and Title	OU-CON-MAS-02-L3-V1: Perform Bricks, Blocks and Stone Masonry Work
Unit descriptor	<p>This unit covers the knowledge, skills and attitudes required to perform bricks/blocks and stone masonry work.</p> <p>It specifically includes the tasks of preparing for work, preparing mortar, preparing and use aluminium scaffolds, performing bricks masonry work, performing blocks masonry work, performing stone masonry work and maintaining workplace, tools, equipment and materials.</p>
Nominal Hours	90 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables.
1. Prepare for work	1.1 Work requirements, including plans and specifications, are interpreted 1.2 <u>Safe work practices</u> are followed throughout the work process 1.3 Work area is inspected and prepared as per job requirement 1.4 <u>Personal protective equipment (PPE)</u> is identified and used 1.5 <u>Tools, equipment</u> and <u>materials</u> are identified and collected. 1.6 Tools and equipment are checked for serviceability.
2. Prepare mortar	2.1 <u>Types of mortar</u> and mixing ratios are determined as per job specification. 2.2 Ingredients of Mortar are measured according to required proportions. 2.3 <u>Mixing equipment</u> is set up safely following workplace and OHS procedures. 2.4 <u>Dry ingredients</u> are mixed thoroughly to achieve uniform color and consistency. 2.5 Water is added gradually and mixed to achieve the required mortar workability. 2.6 Prepared mortar is checked and adjusted to meet required consistency and performance. 2.7 Prepared mortar is handled and transported using standard procedure. 2.8 Excess or unused mortar is disposed of in accordance with environmental and workplace procedures.
3. Prepare and use Aluminium scaffolds	3.1 <u>Types of scaffolds</u> required for the task are identified based on height, work activity, load requirements, and site conditions. 3.2 <u>Scaffold components</u> are selected, checked, and prepared for workability and safety compliance. 3.3 Worksite is inspected and prepared following OSH requirements. 3.4 Scaffold components are assembled according to workplace standards.

	<p>3.5 Scaffold is checked, leveled, and secured to meet load capacity and height limits according to regulatory requirements.</p> <p>3.6 Access points such as ladders are installed to allow safe entry and exit to the scaffold.</p> <p>3.7 Scaffold is used safely, following OSH procedures</p> <p>3.8 Scaffold is dismantled safely and stored following standard procedures,</p>
4. Perform bricks masonry work	<p>4.1 Work area is cleaned, prepared, and set out according to safety standards and workplace requirement.</p> <p>4.2 Bricks are checked for <u>quality</u> as per specification of masonry work.</p> <p>4.3 First course of bricks is laid accurately, ensuring correct alignment and level,</p> <p>4.4 Mortar is applied evenly, and bricks are placed, levelled, and aligned according to required bonding spacing.</p> <p>4.5 Vertical joints, horizontal joints, and wall plumbness are maintained throughout the work.</p> <p>4.6 <u>Openings</u> are measured and constructed following layout drawing.</p> <p>4.7 Excess mortar is removed and joints are raked or flushed according to job requirements.</p> <p>4.8 Reinforcement (if required) such as hoop iron or wire mesh is placed according to specifications.</p> <p>4.9 Corners, junctions and offsets are constructed and firmly bonded as per standard procedure</p> <p>4.10 Completed masonry work is checked as per job instruction</p>
5. Perform blocks masonry work	<p>5.1 Work area is cleaned, cleared, and set out based on layout plans, dimensions, and site conditions.</p> <p>5.2 Concrete blocks are inspected for <u>quality</u> as per standard for the masonry task.</p> <p>5.3 First course is laid ensuring correct alignment and level, using string lines and spirit levels.</p> <p>5.4 Mortar is spread evenly, and blocks are positioned, aligned, and tapped into place to achieve required spacing and joint thickness.</p> <p>5.5 Vertical and horizontal joints are maintained consistently throughout the wall, ensuring correct bonding and alignment.</p> <p>5.6 Reinforcement (if required) such as rebar, joint mesh, or grouting is placed according to structural or job requirements.</p> <p>5.7 <u>Openings</u> are constructed as per drawing.</p> <p>5.8 Corners, intersections, and junctions are built firmly, maintaining plumbness, squareness, and proper bonding.</p> <p>5.9 Cutting and shaping of blocks is performed using appropriate tools and techniques to fit required dimensions.</p>

	<p>5.10 Joints are finished by raking, flushing, or tooling according to job requirements.</p> <p>5.11 Completed block masonry work is inspected for as per job instruction.</p>
6. Perform stone masonry work	<p>6.1 Worksite is inspected, cleaned, and prepared, ensuring stable foundation, correct layout and hazard-free conditions.</p> <p>6.2 Different <u>types of stones</u> are identified and inspected for size, quality, and suitability for the work.</p> <p>6.3 Stone <u>resizing</u> are performed using appropriate tools and techniques according to required dimensions and finishes.</p> <p>6.4 Bond patterns and <u>laying methods</u> are identified and followed.</p> <p>6.5 First course of stones is laid ensuring correct alignment and level.</p> <p>6.6 Stones are placed, aligned, and bedded, maintaining consistent joint thickness and proper bonding</p> <p>6.7 Through stones, headers, or bond stones are installed where required to strengthen the wall.</p> <p>6.8 Packing stones, chips, or spalls are properly placed to fill voids and ensure compactness in rubble masonry.</p> <p>6.9 <u>Surface finishing</u> is carried out as required.</p> <p>6.10 Completed stone masonry work is checked as per job instruction</p>
7. Maintain workplace, tools, equipment and materials	<p>7.1 Work area is cleaned in accordance with workplace procedures;</p> <p>7.2 Unused materials are stored for re-use or disposed following workplace procedures;</p> <p>7.3 Waste and scrap materials are disposed with following workplace procedures;</p> <p>7.4 Inventory of tools equipment are conducted and recorded as per checklist;</p> <p>7.5 Tools and equipment are cleaned and stored as per manufacturer recommendation in appropriate location.</p>
Range of Variables	
Variables	Range (may include but not limited to):
1. Safe work practices	<p>1.1. Use PPE</p> <p>1.2. Follow Lockout and Tagout (LOTO) procedure</p> <p>1.3. Use fire extinguisher</p> <p>1.4. Response emergency situation</p> <p>1.5. Identify hazard</p> <p>1.6. Control hazards</p> <p>1.7. Measure risk</p> <p>1.8. Use first aid</p> <p>1.9. Follow Safe Working Load (SWL)</p> <p>1.10. Report uncontrolled hazards</p>
2. Personal protective equipment (PPE)	<p>2.1 Helmet with color code</p> <p>2.2 Ear plug</p> <p>2.3 Aprons/Boiler suit</p>

	2.4 Safety goggles 2.5 Hand gloves 2.6 Dust mask 2.7 Safety shoes/boots 2.8 Safety harness
3. Hand tools	3.1 Common hand tools for masonry <ul style="list-style-type: none"> ▪ Brick hammer ▪ Claw hammer ▪ Mallet ▪ Masonry Chisel set ▪ Measuring tape (5m) ▪ Tri-square ▪ Spirit level ▪ Hacksaw frame with blade ▪ PVC level hose/Auto level machine ▪ Drill Bits-Concrete & iron bit ▪ Ring wrench ▪ L pin ▪ Plumb bob ▪ Steel tie ▪ Claw bar ▪ Paint brush ▪ Bracing clamp 3.2 Hand Tools for scaffolding <ul style="list-style-type: none"> ▪ Scaffold Spanner / Podger Spanner ▪ Ratchet Spanner ▪ Adjustable Wrench ▪ Hammer (Claw or Lump Hammer) ▪ Torpedo Level / Mini Level ▪ Chalk Line / Marking Line ▪ Safety Lanyard & Tool Belt ▪ Hand Brush / Wire Brush ▪ Screwdrivers (Flat & Phillips) ▪ Bolt Bag / Tool Pouch ▪ Utility Knife / Cutter ▪ Hand tools for mortar mix ▪ Hand float ▪ Scraper ▪ Hand brush ▪ Scoop 3.3 Hand Tools for brick Masonry <ul style="list-style-type: none"> ▪ Brick trowel ▪ Pointing trowel ▪ Mason's hammer

	<ul style="list-style-type: none"> ▪ Bolster chisel ▪ Jointing tool ▪ Straight edge ▪ Margin trowel ▪ Bucket / water pot <p>3.4 Hand Tools for block masonry</p> <ul style="list-style-type: none"> ▪ Block trowel ▪ Rubber mallet ▪ Sponge / finishing float <p>3.5 Hand Tools for stone masonry</p> <ul style="list-style-type: none"> ▪ Chisels (Point chisel, Flat chisel, Tooth chisel) ▪ Stone hammer ▪ Pitching tool ▪ Stone saw ▪ Scriber / Marking tool
4. Equipment	<p>4.1 Equipment for Mortar Mix</p> <ul style="list-style-type: none"> ▪ Mechanical mixer / concrete mixer ▪ Wheelbarrow ▪ Mortar mixer pan ▪ Vibrating machine ▪ Bucket ▪ Gauge box / measuring box ▪ Water container <p>4.2 Equipment for Brick Masonry</p> <ul style="list-style-type: none"> ▪ Scaffold / working platform ▪ Plumb line stand ▪ Spirit level stand ▪ Mortar board / pan ▪ Brick cutting machine ▪ Hoist or lifting trolley (for heavy walls) ▪ Mortar laying tools <p>4.3 Equipment for Block Masonry</p> <ul style="list-style-type: none"> ▪ Block cutting machine / saw ▪ Lifting hoist / trolley ▪ Vibrating machine (for compacted block walls) <p>4.4 Equipment for Stone Masonry</p> <ul style="list-style-type: none"> ▪ Stone cutting machine / circular saw ▪ Masonry drill / hammer drill ▪ Trolley or lifting equipment ▪ Vibrating machine (for rubble stone) ▪ Joint filler machine

	<ul style="list-style-type: none"> ▪ Joint cutter
5. Materials	<p>5.1 Materials / Ingredients for Mortar Mix</p> <ul style="list-style-type: none"> ▪ Cement ▪ Sand (fine, medium, coarse) ▪ Lime (if required) ▪ Water (clean / potable) ▪ Admixtures / plasticizers / bonding agents ▪ Stone dust (for block masonry) <p>5.2 Materials for Brick Masonry</p> <ul style="list-style-type: none"> ▪ Bricks (clay, engineering bricks, mortar bricks) ▪ Mortar (cement, lime, sand, water mix) ▪ Reinforcement (e.g., wire mesh) ▪ Bonding agent / slurry coat <p>5.3 Materials for Block Masonry</p> <ul style="list-style-type: none"> ▪ Concrete blocks (hollow or solid) ▪ Mortar (cement, sand, stone dust, water) ▪ Reinforcement (rebar, joint mesh) ▪ Bonding agent / slurry coat <p>5.4 Materials for Stone Masonry</p> <ul style="list-style-type: none"> ▪ Stones (granite, sandstone, limestone, rubble) ▪ Mortar (cement, lime, sand, water) ▪ Packing stones / chips / spalls ▪ Reinforcement (e.g., hoop iron, dowels) ▪ Bonding / grouting material
6. Types of scaffolds	<p>6.1 Single Scaffolding</p> <p>6.2 Double Scaffolding</p> <p>6.3 Cantilever Scaffolding</p> <p>6.4 Suspended Scaffolding</p> <p>6.5 Trestle Scaffolding</p> <p>6.6 Steel Scaffolding</p> <p>6.7 Patented / System Scaffold</p> <p>6.8 Rolling / Mobile Scaffold</p> <p>6.9 Ladder Scaffolding</p>
7. Scaffold components	<p>7.1 Standards / Vertical Frames</p> <p>7.2 Ledgers / Horizontal Frames</p> <p>7.3 Transoms / Cross Braces</p> <p>7.4 Base Plates / Screw Jacks</p> <p>7.5 Platform Boards / Decks</p> <p>7.6 Guardrails / Handrails</p>

	7.7 Toe Boards 7.8 Couplers / Clamps 7.9 Diagonal Braces 7.10 Ladder / Access Steps 7.11 Outriggers / Stabilizers Wheels / Castors (for mobile scaffolds) 7.12 End Frames / End Braces
8. Quality	8.1 Size, 8.2 Shape, 8.3 Moisture content, 8.4 Strength 8.5 Suitability 8.6 Durability 8.7 Stability 8.8 Fairness
9. Openings	9.1 Doors 9.2 Windows 9.3 Vents 9.4 utilities
10. Types of stones	10.1 Granite 10.2 Sandstone 10.3 limestone
11. Resizing	11.1 Dressing 11.2 Shaping 11.3 cutting
12. laying methods	12.1 Random rubble, 12.2 Coursed rubble, 12.3 Ashlar, 12.4 Polygonal masonry
13. Surface finishing	13.1 Pointing 13.2 Jointing 13.3 Tooling
Evidence guides The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the unit of competency.	
1. Critical aspects of competency	Assessment required evidence that the candidate: <ol style="list-style-type: none"> 1.1. followed safe work practices 1.2. used personal protective equipment (ppe) 1.3. prepared mortar 1.4. prepared and used aluminium scaffolds 1.5. performed bricks masonry work 1.6. performed blocks masonry work 1.7. performed stone masonry work 1.8. maintained workplace, tools, equipment and materials

2. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Safe work practices 2.2 Safe use of tools and equipment 2.3 Materials used for brick, block and stone masonry 2.4 Types and properties of bricks, blocks, and stones 2.5 Types of scaffolds 2.6 Scaffold components 2.7 Quality of brick, block and stones 2.8 Openings of wall 2.9 Resizing of stones 2.10 laying methods 2.11 Surface finishing 2.12 Quality checks for masonry units 2.13 Mortar types, proportions, and mixing requirements 2.14 Effects of weather and moisture on masonry materials 2.15 Use of bonding agents and additives 2.16 Block bond patterns (running bond, stack bond) 2.17 Stone masonry patterns (coursed, uncoursed, ashlar, rubble) 2.18 Techniques for corners, junctions, pillars, and openings 2.19 Mixing ratios and consistency requirements 2.20 Functions of lime, cement, sand, and admixtures 2.21 Proper storage and handling of mortar 2.22 Step-by-step procedures for brick, block, and stone laying 2.23 Techniques for uniform joint thickness 2.24 Placement of reinforcement (wire mesh, rebar, bond stones) 2.25 Methods of cutting and shaping units (bricks, blocks, stones) 2.26 Techniques for maintaining plumb, level, and alignment 2.27 Surface Preparation & Finishing
3. Underpinning skills	<ul style="list-style-type: none"> 3.1 Installing scaffolding 3.1 Jointing and finishing methods 3.2 Reading and interpreting drawings and specifications 3.3 Using line, pins, plumb bob, and spirit level for layout 3.4 Establishing right angles, levels, and verticality 3.5 Curing and setting 3.6 Measuring and marking skills 3.7 Mortar mixing and handling skills 3.8 Laying and bonding skills 3.9 Cutting and shaping skills 3.10 Alignment and levelling skills 3.11 Surface preparation skills 3.12 Reinforcement placement skills 3.13 Joint finishing skills 3.14 Tools handling skills 3.15 Problem-solving skills 3.16 Teamwork and communication skills

	3.17 Safety and risk control skills
4. Underpinning attitudes	4.1 Commitment to occupational health and safety 4.2 Promptness in carrying out activities 4.3 Sincere and honest to duties 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect to rights of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace
5. Resource implications	The following resources must be provided: 5.1 workplace (actual or simulated) 5.2 personal protective equipment (PPE) 5.3 signage 5.4 barricades 5.5 tools and equipment as per proposed activities 5.6 necessary materials suitable for proposed activities 5.7 aluminium scaffolding 5.8 drawings and specifications
6. Methods of assessment	Methods of assessment may include but not limited to: 6.1 Written test 6.2 Demonstration 6.3 Oral questioning 6.4 Portfolio
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre; 7.2 Assessment should be done by a NSDA certified/nominated assessor.
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), the National Quality Assurance Body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of qualification under BNQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

Unit Code and Title	OU-CON-MAS-03-L3-V1: Carryout Higher Order Plastering Work on Concrete and Masonry Surfaces
Unit descriptor	<p>This unit covers the knowledge, skills and attitudes required to installing aluminium formwork.</p> <p>It specifically includes the tasks of preparing for work, preparing surface for plastering, preparing mortar, plastering the surface, performing fair facing plastering, preparing masonry surface for damp proofing or waterproofing and applying damp proofing or waterproofing materials.</p>
Nominal Hours	75 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables.
1. prepare for work	1.1 Work requirements, including plans and specifications, are interpreted 1.2 <u>Safe work practices</u> are followed throughout the work process 1.3 Work area is inspected and prepared as per job requirement 1.4 <u>Personal protective equipment (PPE)</u> is identified and used 1.5 <u>Tools, equipment and materials</u> are identified and collected. 1.6 Tools and equipment are checked for serviceability.
2. Prepare surface for plastering	2.1 Surface is cleaned and prepared by removing dust, laitance, loose particles, and contaminants. 2.2 Cracks, holes, and defects are identified and repaired according to standard procedures. 2.3 Uneven surfaces are chipped, hacked, or roughened to improve adhesion. 2.4 Masonry or concrete substrate is moistened to achieve proper suction before plastering. 2.5 <u>Bonding agent</u> , slurry coat, or primer is applied where required. 2.6 Vertical level and evenness of surface are checked 2.7 Screed marks or guides are installed to ensure correct plaster thickness and alignment. 2.8 Surface is inspected to ensure readiness for plastering and compliance with job requirements.
3. Prepare mortar	3.1 Types of mortar and mixing ratios are determined as per job specification. 3.2 Ingredients of Mortar are measured according to required proportions. 3.3 Mixing equipment is set up safely following workplace and OHS procedures. 3.4 Dry ingredients are mixed thoroughly to achieve uniform color and consistency.

	<p>3.5 Water is added gradually and mixed to achieve the required mortar workability.</p> <p>3.6 Prepared mortar is checked and adjusted to meet required consistency and performance.</p> <p>3.7 Prepared mortar is handled and transported using standard procedure.</p> <p>3.8 Excess or unused mortar is disposed of in accordance with environmental and workplace procedures.</p>
4. Plaster the surface	<p>4.1 Prepared mortar is carried to work area</p> <p>4.2 <u>Plastering machines</u> are set as per work requirement</p> <p>4.3 Plaster mortar is applied and levelled evenly using plastering machine according to specified thickness.</p> <p>4.4 Hollow sounds or weak spots are eliminated through proper compaction.</p> <p>4.5 Corners, edges, and junctions are formed cleanly using corner trowel.</p> <p>4.6 Work area and tools are cleaned after plastering is completed.</p>
5. Perform fair facing plastering	<p>5.1 Surface is cleaned, repaired, and prepared to meet fair-faced finish requirements.</p> <p>5.2 Fine mortar or special finishing mix is prepared according to specification.</p> <p>5.3 Thin and even coats are applied to achieve a smooth, uniform finish.</p> <p>5.4 Surface is levelled, floated, and steel trowelled to remove blemishes and irregularities.</p> <p>5.5 Edges, corners, and architectural lines are shaped and finished as per job requirement.</p> <p>5.6 Surface is inspected for imperfections, cracks, or color inconsistencies.</p> <p>5.7 Corrections are carried out immediately to achieve the required fair-faced quality.</p> <p>5.8 Completed fair-facing plaster is protected from damage, contamination, and rapid drying.</p>
6. Prepare masonry surface for damp proofing or waterproofing	<p>6.1 Surface is cleaned thoroughly to remove from <u>foreign materials</u></p> <p>6.2 Cracks, holes, and defects are identified and repaired before waterproofing.</p> <p>6.3 Surface is smoothened and edges are rounded for proper application of coatings.</p> <p>6.4 Moisture tests are conducted to assess substrate condition.</p> <p>6.5 Primer or bonding coat is applied where required by material specifications.</p> <p>6.6 Drainage slopes or falls are verified to prevent water stagnation.</p>

	6.7 Work area is secured to ensure clean and uninterrupted application.
7. Apply damp proofing or waterproofing materials	7.1 Manufacturer's instructions and job specifications for waterproofing system are confirmed. 7.2 Tools and equipment are prepared for use. 7.3 Primer or key coat is applied uniformly to prepared surface. 7.4 <u>Waterproofing material</u> is mixed or prepared correctly. 7.5 First coat is applied evenly at the recommended thickness. 7.6 Second or subsequent coats are applied after proper curing or drying time. 7.7 Waterproofing layers are checked for pinholes, gaps, or weak adhesion. 7.8 Surface is cured or protected according to product requirements. 7.9 Tools and leftover materials are handled and disposed of safely.
Range of Variables	
Variables	Range (may include but not limited to):
1. Safe work practices	1.1 Use PPE 1.2 Use fire extinguisher 1.3 Response emergency situation 1.4 Identify hazard 1.5 Control hazards 1.6 Measure risk 1.7 Use first aid 1.8 Follow safety signs and symbols 1.9 Report uncontrolled hazards and situations
2. Personal protective equipment (PPE)	2.1 Helmet with colour code 2.2 Ear plug 2.3 Aprons 2.4 Safety goggles 2.5 Hand gloves 2.6 Dust mask 2.7 Safety shoes/boots 2.8 Safety harness
3. Hand tools	3.1 Chipping hammer 3.2 Claw hammer 3.3 Measuring tape (5m) 3.4 Tri-square 3.5 Spirit level 3.6 PVC level hose/Auto level machine 3.7 Plumb bob 3.8 Brush/broom 3.9 Chalk Line / Marking Line 3.10 Utility Knife / Cutter

	3.11 Hand float 3.12 Scraper 3.13 Scoop 3.14 Brick trowel 3.15 Pointing trowel 3.16 Straight edge 3.17 Margin trowel 3.18 Bucket / water pot 3.19 Sponge / finishing float 3.20 Scriber / Marking tool 3.21 Inner Corner trowel 3.22 Outer corner trowel 3.23 Finishing trowel
4. Equipment	4.1 Automatic plastering machine 4.2 Mortar gun / grout pump 4.3 Laser level 4.4 Laser distance measurer 4.5 Digital plumb line 4.6 Electronic spirit level 4.7 Power trowel
5. Material	5.1 Ordinary Portland Cement (OPC) 5.2 Portland Pozzolana Cement (PPC) 5.3 Composite cement 5.4 White cement (for finishing and decorative plaster) 5.5 Lime (for plasticity and smoothness) 5.6 Clean river sand 5.7 Crushed stone dust or manufactured sand (M-sand) 5.8 Coarse sand 5.9 Lightweight aggregates 5.10 Plasticizers 5.11 Water-proofing compounds 5.12 Bonding agents 5.13 Retarders 5.14 Accelerators 5.15 Anti-crack fibres 5.16 Clean potable water free from impurities, oil, or salts 5.17 Galvanized wire mesh 5.18 Fiber mesh sheets 5.19 Marble dust 5.20 Colored pigments 5.21 Ready-mix plaster 5.22 Skim coat or finishing putty 5.23 Cement slurry 5.24 Mechanical key coat or dash coat 5.25 Gypsum plaster

	5.26 Stucco plaster 5.27 POP (Plaster of Paris) 5.28 String line
6. Bonding Agent	6.1 SBR (Styrene Butadiene Rubber) latex 6.2 Acrylic polymer bonding agent 6.3 Epoxy resin bonding agent 6.4 Polyvinyl Acetate (PVA) bonding agent 6.5 Polymer-modified mortar bonding coats 6.6 Epoxy-based bonding pastes
7. Types of mortar	7.1 Cement mortar 7.2 Lime mortar 7.3 Cement-lime mortar 7.4 Polymer-modified cement mortar 7.5 Waterproof cement mortar 7.6 Gypsum mortar 7.7 Ready-mix plaster mortar 7.8 Special purpose mortars
8. Mixing equipment	8.1 Pan mixer 8.2 Drum type mixer / concrete mixer 8.3 Vertical shaft mixer (forced action mixer) 8.4 Mortar mixer (continuous type) 8.5 Ready-mix plaster machine with integrated mixer 8.6 Automatic plastering machine with built-in mixer 8.7 Continuous screw mixer 8.8 Power drill with mixing paddle attachment
9. Plastering Machine	9.1 Plaster spraying machine 9.2 Automatic ready-mix plaster machine 9.3 Screw pump plastering machine 9.4 Hydraulic plastering machine 9.5 Stucco / texture spraying machine 9.6 Gypsum / pop plaster machine
10. foreign materials	10.1 Dust 10.2 Algae 10.3 Oil 10.4 Loose particles.
11. Waterproofing material	11.1 Cementitious 11.2 Bituminous 11.3 Membrane 11.4 acrylic, polymer)
Evidence guides The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the unit of competency.	

1. Critical aspects of competency	<p>Assessment required evidence that the candidate:</p> <ol style="list-style-type: none"> 1.1 followed safe work practices 1.2 identified and used personal protective equipment (ppe) 1.3 identified and used updated plastering machine 1.4 prepared surface for plastering 1.5 prepared mortar 1.6 plastered the surface 1.7 performed fair facing plastering 1.8 prepared masonry surface for damp proofing or waterproofing 1.9 applied damp proofing or waterproofing materials
2. Underpinning knowledge	<ol style="list-style-type: none"> 2.1 Properties and types of cement, sand, lime, and gypsum 2.2 Use of polymer additives, bonding agents, and admixtures 2.3 Selection of water-proofing and finishing compounds 2.4 Understanding ready-mix and pre-blended plaster materials 2.5 Mix proportions for cement, lime, and gypsum mortars 2.6 Effects of water–cement ratio on workability and strength 2.7 Use of special mortars for waterproofing, decorative, or high-strength applications 2.8 Assessment of concrete and masonry surfaces for plastering 2.9 Understanding of curing requirements before plaster application 2.10 Layering techniques (base coat, undercoat, finishing coat) 2.11 Chamfering, rounding, and edge finishing on corners 2.12 Selection and use of mechanical mixers and plastering machines 2.13 Safe handling of cement, lime, gypsum, and chemical admixtures 2.14 Quality standards for plaster thickness, evenness, and finish 2.15 Prevention of cracks, sagging, and surface defects 2.16 Knowledge of color and pigment integration for decorative plaster 2.17 Application of plaster over various substrates (concrete, brick, block, stone)
3. Underpinning skills	<ol style="list-style-type: none"> 3.1 Preparing surface for plastering 3.2 Cleaning, dampening, and application of bonding slurry 3.3 producing uniform, lump-free mortar 3.4 providing mechanical key for adhesion 3.5 Applying methods for internal and external plaster 3.6 Using automatic plastering machines 3.7 Achieving smooth, even, and level surfaces 3.8 Using trowels, floats, and other hand tools for high-quality finish 3.9 Applying Techniques for textured, stucco, or gypsum finishes

	3.10 Maintaining and cleaning of mixing and plastering equipment 3.11 Cleaning and maintaining work area.
4. Underpinning attitudes	4.1 Commitment to occupational health and safety 4.2 Promptness in carrying out activities 4.3 Sincere and honest to duties 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect to rights of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace.
5. Resource implications	The following resources must be provided: 5.1 Workplace (actual or simulated) 5.2 Personal protective equipment (PPE) 5.3 Signage 5.4 Barricades 5.5 Tools, equipment and machinery for proposed activities 5.6 Materials necessary to perform activities 5.7 Aluminium scaffolding 5.8 Drawings and specifications 5.9 Necessary manuals
6. Methods of assessment	Methods of assessment may include but not limited to: 6.1 Written test 6.2 Demonstration 6.3 Oral questioning 6.4 Portfolio
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre; 7.2 Assessment should be done by a NSDA certified/nominated assessor.
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), the National Quality Assurance Body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of qualification under BNQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

Unit Code and Title	OU-CON-MAS-04-L3-V1: Carryout Reinforced Concrete Work
Unit descriptor	<p>This unit covers the knowledge, skills and attitudes required to carry out reinforced concrete work.</p> <p>It specifically includes preparing for work, preparing formworks, performing basic bar bending and binding, preparing concrete mix, placing concrete into the form and perform curing.</p>
Nominal Hours	60 Hours
Elements of Competency	<p>Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables.</p>
1. Prepare for work	<p>1.1 <u>Safe work practices</u> are followed as per workplace requirement;</p> <p>1.2 <u>Personal Protective Equipment (PPE)</u> are collected and worn;</p> <p>1.3 Necessary <u>tools and equipment</u> are identified and collected in accordance with work requirement;</p> <p>1.4 Necessary <u>materials</u> are collected in accordance with work requirement;</p>
2. Prepare formworks	<p>2.1 The <u>formwork</u> materials required as per drawings and job specifications are estimated and selected.</p> <p>2.2 The formwork is assembled, erected, and fixed according to the drawings following standard procedures.</p> <p>2.3 The alignments/ levelling of the formwork is performed following standard procedures.</p> <p>2.4 The final surface preparation of the formwork is performed following standard procedures.</p> <p>2.5 The formwork is cleaned and stored following standard practices.</p>
3. Perform basic bar bending and binding	<p>3.1 Bending tools and equipment are selected and used as per the job requirement.</p> <p>3.2 The reinforcement bars are cut as per the job requirement following standard practices.</p> <p>3.3 The reinforcement bars are prepared as per the job requirement following standard practices.</p> <p>3.4 The reinforcement bars are laid and bound as per the job requirement following standard procedures.</p> <p>3.5 The prepared reinforcement bars are placed inside the formwork.</p> <p>3.6 The covering and level are checked.</p>
4. Prepare concrete mix	<p>4.1 Concrete mixing tools and equipment are checked and used according to the job requirement.</p> <p>4.2 Concrete materials are arranged as per the job requirement.</p>

	<p>4.3 The materials are mixed according to the specification and <u>method.</u></p> <p>4.4 The concrete mix is transported to the casting area.</p>
5. Place concrete into the formwork	<p>5.1 The surface is cleaned, loose materials are removed, and the base is ensured level.</p> <p>5.2 The mixed concrete is poured into the formwork in layers, ensuring even distribution.</p> <p>5.3 The mixed concrete is casted into the formwork maintaining proper height to avoid segregation.</p> <p>5.4 A vibrator or rod is used to compact the concrete and remove air pockets.</p> <p>5.5 The top surface is levelled and the required finish is applied.</p> <p>5.6 The concrete is kept moist for the recommended curing period to achieve proper strength.</p>
6. Perform curing	<p>6.1 Curing method, duration, and materials are selected as per specifications and environmental conditions.</p> <p>6.2 <u>Curing materials and equipment</u> are collected</p> <p>6.3 Concrete is inspected to ensure the surface is ready for curing.</p> <p>6.4 Appropriate <u>curing method</u> is applied</p> <p>6.5 Concrete surface is kept consistently moist without interruption throughout the recommended curing period.</p> <p>6.6 Surface is protected from direct sunlight, wind, and rapid drying to prevent cracking.</p> <p>6.7 Regular checks are made for signs of dryness, cracks, or damage and corrective action is taken promptly.</p>
Range of Variables	
Variables	Range (may include but not limited to):
1. Safe work practices	<p>1.1 Use PPE</p> <p>1.2 Follow Lockout and Tagout (LOTO) procedure</p> <p>1.3 Use fire extinguisher</p> <p>1.4 Response emergency situation</p> <p>1.5 Identify hazard</p> <p>1.6 Control hazards</p> <p>1.7 Measure risk</p> <p>1.8 Use first aid</p> <p>1.9 Follow Safe Working Load (SWL)</p> <p>1.10 Report uncontrolled hazards</p>
2. Personal Protective Equipment (PPE)	<p>2.1 Goggles</p> <p>2.2 Helmet</p> <p>2.3 Safety boots</p> <p>2.4 Ear plugs or ear muffs</p> <p>2.5 Dust masks</p> <p>2.6 Gloves</p> <p>2.7 Boots</p>

	2.8 Safety belt 2.9 Uniform 2.10 Apron
3. Tools and equipment	3.1 Tools <ul style="list-style-type: none"> ▪ Shovel ▪ Binding hook ▪ Paint Bruss ▪ Wire brass ▪ Scraper ▪ Ball peen Hammer ▪ Claw hammer ▪ Hand saw ▪ Steel tape ▪ bar bender ▪ Try square ▪ C clamp/I clamp ▪ Marker ▪ Mortar pan ▪ Water level ▪ spirit level ▪ Gauge box ▪ Plumb bob ▪ Trowel ▪ Bucket ▪ Mason thread ▪ Rammer/Wooden float 3.2 Equipment <ul style="list-style-type: none"> ▪ Mixture machine ▪ Portable Power saw ▪ Bending machine ▪ Wheel barrow ▪ Vibrator
4. Materials	4.1 Cement 4.2 Sand 4.3 Brick chips/stone chips 4.4 MS rod 4.5 Forming material 4.6 Binding wire 4.7 Scaffolding martials 4.8 Covering block 4.9 Admixture 4.10 Shutter oil/Form oil 4.11 Water 4.12 Broom 4.13 Cotton waste

5. Formwork	5.1 Formwork of column 5.2 Formwork of lintel 5.3 Formwork of beam
6. Concrete mixing method	6.1 Hand mixing 6.2 Machine mixing 6.3 Plant mixing
7. Curing materials and equipment	6.4 Water source 6.5 Curing sheets 6.6 Hessian cloth 6.7 Curing compounds 6.8 Hose pipe 6.9 Containers, and tools
8. Curing method	7.1 Wetted coverings, 7.2 Continuous water spraying, 7.3 Ponding, 7.4 Curing membrane, or 7.5 Other methods are applied correctly.
Evidence guides The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the unit of competency.	
1. Critical aspects of competency	Assessment required evidence that the candidate: 1.1 followed safe work practices 1.2 assembled, erected, and fixed the formwork with proper aligning and cleaning 1.3 Performed basic bar bending and binding 1.4 Prepared concrete mix 1.5 Placed concrete into the form 1.6 Performed curing
2. Underpinning knowledge	2.1 Occupational Health and Safety (OHS) regulations 2.2 Safe work practices 2.3 Estimation of materials 2.4 Unit conversion 2.5 Layouts and drawing specifications 2.6 Types / sizes of reinforcements 2.7 Formworks 2.8 Methods of binding and bending 2.9 Mixing ratios 2.10 Concrete mixing methods 2.11 Casting method 2.12 Compacting methods 2.13 Curing of concrete 2.14 Repair and maintenance work
3. Underpinning skills	3.1 Measurement and level checking of formwork 3.2 Performing rod cutting, bending and binding 3.3 Following concrete mixing ratio

	3.4 Using tools and equipment 3.5 Using compacting machine 3.6 Communication skills 3.7 Time management skills 3.8 Interpersonal skills 3.9 Problem solving skills. 3.10 Formwork removing method
4. Underpinning attitudes	4.1 Commitment to occupational health and safety 4.2 Promptness in carrying out activities 4.3 Sincere and honest to duties 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect to rights of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace.
5. Resource implications	The following resources must be provided: 5.1 Workplace 5.2 Formwork materials 5.3 Formwork accessories 5.4 Measuring instruments 5.5 Signage 5.6 Barricades 5.7 Tools, equipment and machinery for proposed activities 5.8 Materials necessary to perform activities 5.9 Drawings and specifications 5.10 Necessary manuals
6. Methods of assessment	Methods of assessment may include but not limited to: 6.1 Written test 6.2 Demonstration 6.3 Oral questioning 6.4 Portfolio
7. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre; 7.2 Assessment should be done by a NSDA certified/nominated assessor.
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), the National Quality Assurance Body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of qualification under BNQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

Unit Code and Title	OU-CON-MAS-05-L3-V1: Construct Circular Brick Wall & Hollow Block Walls.
Unit descriptor	<p>This unit covers the knowledge, skills and attitudes required to construct circular brick wall and hollow brick wall.</p> <p>It specifically includes the tasks of preparing for works, preparing for circular brick wall and hollow block wall, constructing circular brick wall, constructing hollow block wall and maintaining workplace, tools, equipment and materials</p>
Nominal Hours	60 Hours
Elements of Competency	Performance Criteria <u>Bold & Underlined</u> terms are elaborated in the Range of Variables.
1. prepare for work	1.1 Work requirements, including plans and specifications, are interpreted 1.2 <u>Safe work practices</u> are followed throughout the work process 1.3 Work area is inspected and prepared as per job requirement 1.4 <u>Personal protective equipment (PPE)</u> is identified and used 1.5 <u>Tools, equipment and materials</u> are identified and collected. 1.6 Tools and equipment are checked for serviceability.
2. Prepare for circular brick wall and hollow block wall.	2.1 Bricks or blocks are checked for quality and uniformity before use. 2.2 Bricks are soaked and cleaned as per work specifications. 2.3 Brick cutting and shaping are done to match the curve or hollow design. 2.4 Mortar is prepared in correct proportions and consistency. 2.5 Prepared bricks and mortar are placed conveniently near the working area.
3. Construct circular brick wall	3.1 Line, level, and curve of wall are set out according to the drawing. 3.2 First course of bricks/blocks is laid for alignment and curve. 3.3 Mortar joints are applied evenly and maintained at specified thickness. 3.4 Verticality, curvature, and alignment are maintained during construction. 3.5 Bonding patterns are followed correctly to ensure wall strength and stability. 3.6 Excess mortar is removed, and joints are finished neatly. 3.7 Wall is checked for dimensional accuracy, level, plumb, and structural integrity

4. Construct hollow block wall.	<p>4.1 Site is prepared, and wall alignment is marked according to specifications.</p> <p>4.2 Hollow blocks and mortar are selected, checked for quality, and made ready for use.</p> <p>4.3 Mortar is mixed to the correct proportion and consistency.</p> <p>4.4 Hollow blocks are laid in proper alignment, maintaining level, plumb, and staggered joints.</p> <p>4.5 Mortar is applied evenly on bed and vertical joints for proper bonding.</p> <p>4.6 Reinforcement (if specified) is incorporated in hollow cores or designated locations.</p> <p>4.7 Blocks are cut and fitted accurately for corners openings,</p> <p>4.8 Wall surface is cleaned, excess mortar removed, and prepared for finishing.</p> <p>4.9 Wall is checked for dimensional accuracy, level, plumb, and structural integrity</p>
5. Maintain workplace, tools, equipment and materials	<p>5.1 Work area is cleaned in accordance with workplace procedures;</p> <p>5.2 Unused materials are stored for re-use or disposed following workplace procedures;</p> <p>5.3 Waste and scrap materials are disposed with following workplace procedures;</p> <p>5.4 Inventory of tools equipment are conducted and recorded as per checklist;</p> <p>5.5 Tools and equipment are cleaned and stored as per manufacturer recommendation in appropriate location.</p>
Range of Variables	
Variables	Range (may include but not limited to):
1. Safe work practices	<p>1.1 Use PPE</p> <p>1.2 Use fire extinguisher</p> <p>1.3 Response emergency situation</p> <p>1.4 Identify hazard</p> <p>1.5 Control hazards</p> <p>1.6 Measure risk</p> <p>1.7 Use first aid</p> <p>1.8 Follow safety signs and symbols</p> <p>1.9 Report uncontrolled hazards and situations</p>
2. Personal protective equipment (PPE)	<p>2.1 Helmet with colour code</p> <p>2.2 Ear plug</p> <p>2.3 Aprons</p> <p>2.4 Safety goggles</p> <p>2.5 Hand gloves</p> <p>2.6 Dust mask</p> <p>2.7 Safety shoes/boots</p>

	2.8 Safety harness
3. Hand tools	3.1 Trowel 3.2 Brick Hammer / Mason's Hammer 3.3 Spirit Level 3.4 Plumb Bob 3.5 Measuring Tape / Steel Scale 3.6 Line and Pins / Mason's Line 3.7 Pointing Trowel 3.8 Brick Chisel. 3.9 Bucket / Mortar Pan 3.10 Hawk / Mason's Board 3.11 Rubber Mallet 3.12 Brush 3.13 Tri square 3.14 Pan 3.15 Shovel 3.16 Spade 3.17 Mug 3.18 Large compass for drawing circle
4. Equipment	4.1 Wheelbarrow 4.2 Bucket/drum 4.3 Mortar mixing machine 4.4 Hoist or pulley system (if needed for heavy blocks) 4.5 Electric brick/block cutter 4.6 Angle grinder
5. Material	5.1 Bricks 5.2 Hollow concrete blocks/Autoclaved Aerated concrete block 5.3 Cement 5.4 Sand (fine aggregate) 5.5 Water 5.6 Lime 5.7 Gravel or crushed stone 5.8 Reinforcement bars (steel rods) 5.9 Damp-proof material 5.10 Curing compound 5.11 Joint filler or pointing material
6. Hollow block	6.1 Rectangular Hollow Blocks (RHB) 6.2 Square Hollow Blocks 6.3 Lintel Hollow Blocks 6.4 Corner Hollow Blocks 6.5 Inverted or U-shaped Hollow Blocks 6.6 Solid Hollow Blocks 6.7 Decorative Hollow Blocks

7. Mortar	7.1 Cement Mortar 7.2 Lime Mortar 7.3 Cement-Lime Mortar 7.4 Gypsum Mortar (Plastering Mortar) 7.5 Polyvinyl mortar
Evidence guides The evidence must be authentic, valid, sufficient, reliable, consistent and recent and meet the requirements of the current version of the unit of competency.	
8. Critical aspects of competency	Assessment required evidence that the candidate: <ul style="list-style-type: none"> 1.1 followed safe work practices 1.2 used Personal protective equipment (PPE) 1.3 Prepared for circular brick wall and hollow block wall. 1.4 Constructed circular brick wall 1.5 Constructed hollow block wall. 1.6 Maintained workplace, tools, equipment and materials
9. Underpinning knowledge	<ul style="list-style-type: none"> 2.1 Types and properties of bricks and hollow blocks 2.2 Types and properties of mortar and cement 2.3 Mixing ratios for different masonry works 2.4 Use of additives and water-cement ratio 2.5 Safe use of Tools and Equipment 2.6 Basic estimate to construct circular brick wall & hollow Block Walls. 2.7 Laying procedures for circular brickwork 2.8 Construction method for hollow block walls 2.9 Alignment, levelling, and joint finishing techniques 2.10 Load-bearing and non-load-bearing wall concepts 2.11 Importance of bonding and reinforcement in blockwork 2.12 Standards and tolerances for masonry work 2.13 Communication and Documentation 2.14 Understanding work instructions and site drawings
10. Underpinning skills	<ul style="list-style-type: none"> 3.1 Identifying use of masonry tools and equipment 3.2 Maintaining and storing of hand tools and equipment 3.3 Setting Out and Measurement 3.4 Reading and interpreting working drawings 3.5 setting out circular and straight walls 3.6 Measuring and marking curved layouts and radii 3.7 Preparing surface and finishing 3.8 Cleaning and wetting of surfaces before laying 3.9 Finishing and curing of masonry work 3.10 Checking for plumb, level, and alignment 3.11 Inspection of joints and finishing 3.12 Reporting work progress and issues to supervisors
1. Underpinning attitudes	<ul style="list-style-type: none"> 4.1 Commitment to occupational health and safety 4.2 Promptness in carrying out activities

	4.3 Sincere and honest to duties 4.4 Environmental concerns 4.5 Eagerness to learn 4.6 Tidiness and timeliness 4.7 Respect to rights of peers and seniors in workplace 4.8 Communicate with peers and seniors in workplace.
2. Resource implications	The following resources must be provided: 5.1 Workplace (actual or simulated) 5.2 Personal protective equipment (PPE) 5.3 Signage 5.4 Barricades 5.1 Tools, equipment and machinery for proposed activities 5.2 Materials necessary to perform activities 5.3 Drawings and specifications 5.4 Necessary manuals
3. Methods of assessment	Methods of assessment may include but not limited to: 6.1 Written test 6.2 Demonstration 6.3 Oral questioning 6.4 Portfolio
4. Context of assessment	7.1 Competency assessment must be done in NSDA accredited assessment centre; 7.2 Assessment should be done by a NSDA certified/nominated assessor.
Accreditation Requirements Training Providers must be accredited by National Skills Development Authority (NSDA), the National Quality Assurance Body, or a body with delegated authority for quality assurance to conduct training and assessment against this unit of competency for credit towards the award of qualification under BNQF. Accredited providers assessing against this unit of competency must meet the quality assurance requirements set by NSDA.	

References:

- National Competency Standards For Mason (NC2 & NC3), Thimphu, Bhutan

Development of Competency Standard

The Competency Standards for National Skills Certificate in Masonry, Level- 03 is developed by NSDA on 10-13 November, 2025.

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Validation of Competency Standard

The Competency Standards for National Skills Certificate in Masonry, Level- 03 is validated by NSDA on 27 November, 2025.

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