

NATIONAL OCCUPATIONAL STANDARD (NOS) ON ALUMINIUM CLADDING INSTALLATION LEVEL ONE

LEVEL 1: ASSISTANT ALUMINIUM CLADDER

MANDATORY UNITS

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours
01	CON/ACI/001/L1	Health, Safety and Environment	2	20
02	CON/ACI/002/L1	Communication system in a work Environment	2	20
03	CON/ACI/003/L1	Teamwork in Construction Environment	2	10
04	CON/ACI/004/L1	Identification of Tools and Equipment	2	20
05	CON/ACI/005/L1	Pre- Installation Preparation for Aluminium Cladding	3	30
06	CON/ACI/006/L1	Basic Aluminium Cladding Installation Technique	3	30

	Total	14	140
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Key:

CON – CONSTRUCTION

ACI – ALUMINIUM CLADDING INSTALLATION 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 value = 10 guided learning hours
Unit Purpose	Provides a brief outline of the unit content.
Learning Outcome	A statement of what a learner will know, understand or be able to do, as a result of learning process.
Assessment Criteria	A description of the requirements a learner must achieve to demonstrate that a learning outcome has been met.
Unit Assessment Guidance	Any additional guidance provided to support the assessment of the unit.
Unit Guided Learning Hours	The average number of hours of supervised or directed study time or assessment required to achieve a qualification or unit of qualification.

UNIT 001: Health, Safety and Environment

Qualification Reference Number: CON/ACI/001/L1

NSQ level: 1

Credit value: 2

Guided learning hours: 20

Unit Purpose:

At the end of this unit, the learner will be able to comply with the requirements of site safety, health, environmental and quality system including all policies and procedures, maintaining good personal hygiene and application of safe work procedures.

Unit assessment requirements/evidence requirements

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answers (QA)
3. Witness Testimony (WT)
4. Personal Statement (PS)

UNIT 001: Health, Safety and Environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Understand how to Maintain personal health and hygiene	1.1	Wear clean, smart and appropriate Personal Protective Equipment.									
	1.2	Work safely at all times, complying with health and safety and other relevant regulations and Guidelines.									
	1.3	Identify first aid personnel to apply first aid to treat any cuts, grazes and wounds.									
	1.4	Report illness and infection promptly to the appropriate Persons.									
	1.5	State own responsibility under the health and safety Act as it relates to own occupation.									
	1.6	State general rules on hygiene that must be followed.									
	1.7	Mention correct Personal Protection Equipment such as Head Protection, Foot Protection, Face and eye Protection, Hand and Body protection.									

	1.8	State the importance of maintaining good personal Hygiene.											
LO 2: Maintain a hygienic, safe and hazard free workplace.	2.1	State the importance of working in a healthy, safe and hygienic workplace											
	2.2	Follow health, hygiene and safety procedures during work											
	2.3	Practice emergency procedures during work											
	2.4	Follow organizational security procedures											
	2.5	Ensure the disposal of waste and pollution control with organic and Inorganic waste disposal methods.											
	2.6	Identify any hazards or potential hazards and how to deal with it correctly.											

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.				
	2.7	Describe the types of hazards in the workplace that may occur and how to deal with them										
	2.8	State hazards that can be dealt with personally and those that should be reported to someone else										
	2.9	State where information about health and safety in your workplace can be obtained										
LO 3: Maintain a hygienic, safe and secure workplace	3.1	State how to warn other people about hazards and why this is important										
	3.2	State why accidents and near accidents should be reported and who they should be reported to										
	3.3	Describe the types of emergencies that may happen in the workplace and how to deal with them										

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

EQA Signature (if sampled)

Date:

002: Communication System in Work Environment

Unit reference number: CON/ACI/AC/002/L1

NSQ level: 1

Credit value: 2

Guided learning hours: 20

Unit purpose:

At the end of this unit, the learner will be able to establish a quality communication system that is responsive and subject to change in meeting workers and employers need in the work environment.

Unit assessment requirements/evidence requirements.

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answers (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)

UNIT 002: Communication System in Work Environment

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

UNIT

EQA Signature (if sampled)

Date:

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Understanding communication system in a work environment	1.1	Use a simple verbal means to pass on necessary information									
	1.2	Use nonverbal means to pass on necessary information e.g. body language									
	1.3	Explain symbols and signs appropriately									
LO 2: Understanding Sources of information in a work Environment	2.1	Locate the source of information in an organization and work Environment.									
	2.2	Relate appropriately with source of information.									
	2.3	Use the general information flow systems in a work environment									
	2.4	Use information to avoid challenges in a work situation									
	2.5	Report findings in accordance to Procedure in a work environment									
LO 3: Understanding basic communication a work Environment	3.1	Locate the various communication equipment in the work environment									
	3.2	Use communication equipment in a work Environment.									
	3.3	Relate information effectively to the right personnel									
	3.4	Pass information effectively using Symbols, Signs and Codes.									
	3.5	Comply with general instructions in line with ethics of the work Environment.									

003: Team Work in Construction Environment

Unit reference number: CON/ACI/003/L1

NSQ level: 1

Credit value: 2

Guided learning hours: 20

Unit Purpose:

At the end of this unit, the learner will be able to demonstrate skills, knowledge and understanding required to develop team spirit and positive working relationship with colleagues.

Unit assessment requirements/evidence requirements.

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answers (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)

UNIT

003: Team Work in Construction Environment.

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
LO 1: Positive working relationships with colleagues	1.1	Identify the need for developing positive working relationships with colleagues			
	1.2	Recognize the importance of relating with other people in a way that makes them feel valued and respected.			
	1.3	Assist Team members when required			
	1.4	Report the personnel when request for assistance fall outside area of responsibility			
	1.5	Communicate information to colleagues about own work that might affect others			
LO 2: Take Responsibilities within the team.	2.1	Recognize own role and Responsibilities within the team.			
	2.2	Perform individual tasks in line with the team rules and regulations			
	2.3	Participate effectively in teamwork			
LO 3: Compliance with policy of organization	3.1	Work in line with organizational Standard			
	3.2	Use organizational code of practice			
	3.3	Explain organizational code of Conduct			

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

UNIT

EQA Signature (if sampled)

Date:

004: Identification of Tools, Equipment, Material Handling and Storage.

Unit reference number: CON/ACI//004/L1

NSQ level: 1

Credit value: 2

Guided learning hours: 20

Unit Purpose:

At the end of this unit, the learner will be able to: select, apply, care and maintain tools, equipment, material handling and storage according to manufacturer's specifications and site procedures.

Unit assessment requirements/evidence requirements.

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answers (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)

004: Identification of Tools, Equipment, Material Handling and Storage.

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

UNIT

EQA Signature (if sampled)

Date:

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Understand basic tools and equipment	1.1	Identify basic tools relevant to the trade.		
	1.2	Identify mechanical equipment		
	1.3	Select hand tools		
LO 2: Understand the appropriate materials for Aluminium Cladding Works.	2.1	List the use of appropriate materials for aluminium cladding		
	2.2	Identify relevant materials		
	2.3	Select appropriate materials		
LO 3: Understand Handling of materials, tools and equipment	3.1	State the correct sequence of loading and offloading of materials		
	3.2	Handle materials correctly		
	3.3	Store materials correctly		
	3.4	Follow given instruction to move and handle materials correctly		
	3.5	Carry out care and maintenance of tools and equipment		
LO 4: Understand Storage of materials, tools and equipment	4.1	State the sequence of storage of materials, tools and equipment		
	4.2	Demonstrate how to store materials, tools and equipment's correctly		
	4.3	Follow given instruction to store materials, tools and equipment.		

UNIT 005: Pre- Installation Preparation for Aluminium Cladding

Unit reference number: CON/AC/005/L1

NSQ level: 1 Credit value: 3

Guided learning hours: 30

Unit Purpose:

At the end of this unit, the learner will be able to assist the Aluminium Cladder while working within the work environment.

Unit assessment requirements/evidence requirements.

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answers (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)

UNIT 005: Pre- Installation Preparation for Aluminium Cladding

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type						Evidence Ref. No.	Page No.
LO 1: Work Area preparation for Aluminium Cladding	1.1	State the importance of a safe work environment for Aluminum Cladding								
	1.2	Prepare Safe work area for Aluminum Cladding								
	1.3	Implement Safety Measures in work area								
LO 2: Tools & Material Preparation for Aluminium Cladding	2.1	Identify Tools & Materials for given Cladding Work								
	2.2	Inspect Tools and equipment's prior to Installation								
	2.3	Verify the availability of tools and materials prior to installation.								
	2.4	Arrange Tools and equipment's prior to Installation.								
LO 3:	3.1	Read the measuring tape in different units								

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

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Basic Marking Techniques and Measurements for Aluminum Cladding	1.1	Identify Basic Marking Instruments									
	1.2	Use Basic Marking Instruments									
	1.3	Apply Simple marking Techniques									
	1.4	Identify Basic Measuring Instruments									
	1.5	Use Basic Measuring Instruments									
LO 2: Understand Basic Cutting Techniques for Aluminium Cladding	2.1	Identify Hand tools for Cutting profiles and panels									
	2.2	Select Hand tools for Cutting									
	2.3	Use hand tools for Cutting									
LO 3: Basic Shaping Techniques for Aluminum Cladding	3.1	Identify Hand tools for shaping profiles and panels									
	3.2	Select Hand tools for shaping									
	3.3	Use hand tools for shaping									

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

EQA Signature (if sampled)

Date:

NATIONAL OCCUPATIONAL STANDARD (NOS) ON ALUMINIUM CLADDING INSTALLATION LEVEL TWO

LEVEL 2: ALUMINIUM CLADDER

MANDATORY UNITS

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours
01	CON/ACI/001/L2	Health, Safety and Environment	2	20
02	CON/ACI/002/L2	Communication system in a work environment	2	20
03	CON/ACI/003/L2	Teamwork in Construction Environment	2	20
04	CON/ACI/006/L2	Preparation for Aluminum Cladding Installation	3	30
05	CON/ACI/007/L2	Basic Aluminium Cladding Installation	3	30
	Total		12	120

Key:

CON – CONSTRUCTION

ACI – ALUMINIUM CLADDING INSTALLATION

UNIT 001: Health, Safety and Environment

Unit reference number: CON/ACI/001/L2

NSQ level: 2

Credit value: 2

Guided learning hours: 20

Unit Purpose: This unit is designed to provide the Aluminium Cladder with the knowledge and skills required for health and safety in Aluminium Cladding Operations.

Unit Assessment Requirements/Evidence Requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)

UNIT 001: Health, Safety and Environment.

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Work practices and instructions In a Work environment	1.1	Explain safe work practices and instructions to Assistant Aluminium Cladder.		
	1.2	Compare safe work practices and instructions in accordance with company safety Guides.		
	1.3	Apply safe work practices to a given task such as formwork, Aluminium Cladding Installation, etc.		
	1.4	Determine safe methods and procedures of Work practices.		
LO 2: Understand Safety hazards and risks in the work Environment.	2.1	Recognize safety sign and symbols in work Environment.		
	2.2	Identify potential hazards and risks in Work environment.		
	2.3	Recognize potential hazards and risks in surface, heights and Depth areas.		
	2.4	Implement appropriate actions to prevent accident/injury.		
	2.5	Carry out safety drills.		
LO 3: Use of Various types of PPE in the work Environment.	3.1	Identify types of PPE.		
	3.2	Describe work related PPE.		
	3.3	Select appropriate PPE.		
	3.4	Wear PPE in accordance with Instructions.		
	3.5	Maintain PPE after use.		
	3.6	Store PPE after Cleaning.		
LO4: Apply Stacking Techniques.	4.1	Apply appropriate methods of lifting techniques for materials in work Environment.		
	4.2	Implement proper stacking methods and procedures in Material handling.		
	4.3	Guide the Assistant Aluminium Cladder Scaffolder on proper application of manual lifting techniques for heavy materials.		

	4.4	Communicate with Assistant Aluminium Cladder on the application of safe work practices											
LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.					
		and procedures in work Environment.											
LO5: Health & Safety Policy information.	5.1	Provide information of company safety policy to Assistant Aluminium Cladder.											
	5.2	Explain the importance of health and safety in Aluminium Cladding.											
	5.3	Measure Assistant Aluminium Cladder's work Practices application with safety guidelines.											

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

UNIT 002: Communication system in a work environment.

Unit reference number: CON/ACI/002/L2

NSQ level: 2

Credit value: 2

Guided learning hours: 20

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

Unit Assessment Requirements/Evidence Requirements:

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

UNIT 002: Communication system in a work environment.

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Complex communication system in a work environment	1.1	Examine the use of audio, electronic, Electro-magnetic means to pass on necessary information.									
	1.2	Describe simple non-verbal means of communication.									
	1.3	Interpret symbols and signs appropriately.									
LO 2: Source of information in a work environment	2.1	Determine sources of information in an organization and work environment.									
	2.2	Discuss the general information flow systems in a work environment									
	2.3	Communicate findings in accordance to procedure in a work environment									
	2.4	Use information to avoid challenges in a work situation									
	2.5	Carry out proper documentation of information in accordance to procedure in a Work environment.									
LO 3: Use of Various types of PPE in the work Environment.	3.1	Describe various communication channels in a work environment.									
	3.2	Demonstrate the use of various communication means in a work environment.									
	3.3	Communicate information to the right personnel.									
	3.4	Maintain the effective use of symbols, signs and codes.									
LO4: Maintain and deploy communication equipment	4.1	Examine that all communication equipment are in good working conditions.									
	4.2	Interact with the maintenance unit to ensure that communication equipment is maintained regularly.									

	4.3	Interact with appropriate authority to replace communication equipment in the event of loss or damage.												
LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type							Evidence Ref. No.				
	4.4	Examine that communication equipment is stored appropriately in a work environment.												

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

UNIT 003: Team Work in Construction Environment.

Unit reference number: CON/ACI/003/L2

NSQ level: 2

Credit value: 2

Guided learning hours: 20

Unit Purpose:

This unit is designed to develop the Aluminium Cladder with the knowledge required to relate cordially in the workplace.

Unit Assessment Requirements/Evidence Requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)

003: Team Work in Construction Environment.

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Positive working relationship with Colleagues.	1.1	Identify the need for developing positive working relationship with Colleagues.		
	1.2	Recognize the importance of relating with other people in a way that makes them feel valued and Respected.		
	1.3	Interact with team members when required.		
	1.4	Communicate to the appropriate personnel when request for assistance fall outside area of your responsibility		
	1.5	Communicate information to colleagues about own work that might affect Others.		
LO 2: Take responsibilities Within the team.	2.1	Recognize own role and responsibilities within the Team.		
	2.2	Perform individual tasks in line with the team rules and regulations.		
	2.3	Perform effectively in teamwork.		
LO 3: Compliance with policy of organization.	3.1	Perform in line with organizational standard.		
	3.2	Use organization code of practice.		
	3.3	Explain organizational code of conduct.		

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

EQA Signature (if sampled)

Date:

UNIT 004: Preparation for Aluminium Cladding Installation

Unit reference number: CON/ACI/004/L2

Validated February 22, 2024

UNIT

NSQ level: 2

Credit value: 3

Guided learning hours: 30

Unit Purpose:

This unit is designed to develop the Aluminium Cladder with the knowledge and skills required for planning and preparation for Aluminium Cladding Installation operations.

Unit Assessment Requirements/Evidence Requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)

004: Preparation for Aluminium Cladding Installation

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Review basic Project Specifications	1.1	Identify drawings & specifications									
	1.2	Identify scope of cladding installations									
	1.3	Identify basic design requirements such as cladding materials and dimensions									
LO 2: Conduct Site Assessment	2.1	Assess site condition									
	2.2	Identify potential challenges that may affect installation process									
	2.3	Identify location of utilities that might impact on safety									
LO 3:	3.1	Clearly demarcate the boundaries of the work area using barriers or signage to prevent unauthorized access.									

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

UNIT

005: Basic Aluminium Cladding Installation

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Verify Materials and Tools	1.1	Check that all required aluminum cladding materials are on-site and in good condition.		
	1.2	Ensure the availability and functionality of tools and equipment needed for the installation		
	1.3	Select tools for the job including cutting tools, fasteners, and safety gear.		
LO 2: Understand Basic Scaffolding Principles	2.1	Select tools for medium duty scaffold installation		
	2.2	Select basic components for erecting scaffolds such as: <ul style="list-style-type: none"> • Joint pin • Couplers • Transom • Base plate Working platform		
	2.3	Use tools to erect basic scaffolds		
	2.4	Assemble basic scaffolding components such as: <ul style="list-style-type: none"> • Base component • Frame • Brace • Working platform Guardrail		
LO 3:	3.1	Select tools for dismantling light duty scaffold installation		
	3.2	Select tools for medium duty scaffold installation		

Be able to Dismantle Simple Erected scaffolds	3.3	Dismantle Scaffolds in this order: <ul style="list-style-type: none"> • Guardrail • Working platform • Brace • Frame • Base component 												
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LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
	3.4	Clean & Stack Components correctly			
LO 4: Measure and Mark	4.1	Identify tools for Marking and Measurement			
	4.2	Measure the installation points on the building structure based on the project specification.			
	4.3	Mark the installation points on the building structure based on the project specification.			
	4.4	Identify unit of measurement			
LO 5: Cut & Shape Cladding Materials	5.1	Select tools to cut aluminium cladding materials to required dimensions			
	5.2	Select tools to shape aluminium cladding materials to required shape			
	5.3	Apply precision to cut cladding materials to minimize waste			
	5.4	Apply precision to shape cladding materials to minimize waste			
LO 6: Prepare Substrate and Insulation	6.1	Select tools for dismantling light and medium duty scaffold installation			
	6.2	Use tools for dismantling Simple erected scaffolds such as: <ul style="list-style-type: none"> • Claw hammer • Adjustable wrench • Suspension rope 			
	6.3	Prepare the substrate (building surface) to ensure it is clean and suitable for cladding installation.			

UNIT

	6.4	Install insulation											
	7.1	Select Leveling instruments for aluminum cladding											
LO 7: Fasten Profiles and Cladding Panels	7.2	Select tools for fastening profiles such as screw, rivets, adhesives											
	7.3	Select tools for fastening panels such as screw, rivets, adhesives											
	7.4	Fasten aluminum cladding panels											

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
	7.5	Ensure panels are level, plumb, and aligned according to the architectural drawings.			
LO 8: Address Joints and Corners	8.1	Identify Joints in Cladding			
	8.2	Identify Joints in Corners			
	8.3	Ensure Joints and corners are properly sealed and aligned to maintain the integrity of the cladding system.			
	8.4	Use appropriate techniques to create expansion joints and accommodate building movement.			
LO 9: Understand Quality Checks	9.1	Check the installed cladding for defects			
	9.2	Check the installed cladding for misalignments			
	9.3	Check the installed cladding for deviations from project specifications			
	9.4	Rectify issues to maintain quality of installation			
LO 10: Perform Basic Cleaning	10.1	Select tools for cleaning			
	10.2	Clean the installed aluminium cladding to remove debris and marks			
	10.3	Address visible seams and Joints			
LO 11: Document and Communicate	11.1	Document the installation process			
	11.2	Report identified issues & challenges to superiors			
	11.3	Documents issues challenges identified during the installation process and solutions implemented.			
	11.4	Conduct follow up inspection after installation.			
	11.5	Communicate the completion process to superiors.			

EQA Signature (if sampled)

Date:

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

NATIONAL OCCUPATIONAL STANDARD (NOS) ON ALUMINIUM CLADDING INSTALLATION LEVEL THREE

LEVEL 3: SENIOR ALUMINIUM CLADDER

MANDATORY UNITS

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours
01	CON/ACI/001/L3	Health, Safety and Environment	2	20
02	CON/ACI/002/L3	Communication System in Work Environment	2	20
03	CON/ACI/003/L3	Team Work in Construction Environment	2	20
04	CON/ACI/004/L3	Cladding installation	3	30
05	CON/ACI/005/L3	Architectural drawings and designs interpretation	4	40
06	CON/ACI/006/L3	Aluminium Cladding Resource Estimates	4	40
	Total		17	170

Key:



CON – CONSTRUCTION

ACI – ALUMINIUM CLADDING INSTALLATION



UNIT 001: Health, Safety and Environment

Unit reference number: CON/ACI/001/L3

NSQ level: 3

Credit value: 2

Guided learning hours: 20

Unit Purpose:

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

1. Explain the meaning and importance of Health in Aluminium Cladding profession
2. Identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)

UNIT 001: Health, Safety and Environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type						Evidence Ref. No.	Page No.
LO 1: Demonstrate Personal health and hygiene	1.1	State the importance of maintaining good personal hygiene								
	1.2	Wear clean, smart and appropriate personal Protective Equipment								
	1.3	Work safely at all times, complying with health and safety and other relevant regulations and guidelines.								

[illegible]

Validated February 22, 2024

	3.15	Describe organizational security procedures in own area of works and why it is important											
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Learners Signature: Assessors Signature: IQA Signature (if sampled)	Date Date: Date:
EQA Signature (if sampled)	Date:

UNIT 002: Communication System in Work Environment

Unit reference number: CON/ACI/002/L3

NSQ level: 3

Credit value: 2

Guided learning hours: 20

Unit Purpose:

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

1. Explain the meaning and importance of Communication System in Work Environment
2. Identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)

UNIT 002: Communication System in Work Environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
LO 1: Understand Complex communication system in a work environment	1.1	Describe simple non-verbal means of communication			
	1.2	Interpret concept of symbols and signs appropriate			
	1.3	Supervise the use of audio and electronic means to pass on necessary information			
LO 2:	2.1	Identify functional sources of information in work environment.			

Validated February 22, 2024

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

EQA Signature (if sampled)

Date:

UNIT 003: Team Work in Construction Environment

Unit reference number: CON/ACI/003/L3

NSQ level: 3

Credit value: 3

Guided learning hours: 30

Unit Purpose:

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

1. Explain the meaning and importance of team work in Aluminium Cladding profession
2. Identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)

UNIT 003: Team Work in Construction Environment.

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type						Evidence Ref. No.	Page No.
LO 1: Understand Various team roles on the construction site	1.1	Identify the various work team on site e.g. Masonry, Carpentry, Iron bending, Plumbing etc.								
	1.2	Identify the role of each team in 1.1.								
	1.3	Discuss the importance of each team members								
LO 2: Supervise team	2.1	Discuss the method of carrying out activities with team members.								
	2.2	Distribute workload and supervise cladding work activities								

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

UNIT 004: Cladding Installation

Unit reference number: CON/ACI/004/L3

NSQ level: 3

Credit value: 3

Guided learning hours: 30

Unit Purpose:

This unit is designed to ensure that the learner effectively is competent to supervise installed Claddings in work environment. To be able to Identify alignments and levels of installed cladding works.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 004: Cladding Installation

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Demonstrate measuring and marking techniques in cladding installation	1.1	Identify appropriate measuring tools									
	1.2	Identify appropriate marking tools									
	1.3	Use appropriate tools to measure									
	1.4	Use appropriate tools to mark									
LO 2: Demonstrate	2.1	Identify appropriate grooving tools									
	2.2	Identify appropriate bending tools									
	2.3	Use appropriate tools to groove									

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

UNIT

005: Drawings and Designs

Interpretation Unit reference number:

CON/ACI/005/L3 NSQ level: 3

Credit value: 3

Guided learning hours: 30

Unit Purpose:

This unit is designed to equip the learner with the necessary knowledge and skills to interpret construction drawings, designs, and specifications related to aluminum cladding projects.

Unit assessment requirements/evidence requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

005: Drawings and Designs Interpretation

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
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[illegible]

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

Credit value: 4

UNIT

Guided learning hours: 40

Unit Purpose:

This unit is designed to equip the learner with the knowledge and skills necessary to accurately estimate the resources required for aluminum cladding installation projects.

Unit assessment requirements/evidence requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

006: Aluminium Cladding Resource Estimates

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

UNIT

EQA Signature (if sampled)

Date:

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Determine Human Resource estimates	1.1	Identify competent man-power required for the project									
	1.2	Select suitable number of personnel required.									
	1.3	Select suitable combinations of personnel required.									
LO 2: Determine Material Resource estimates	2.1	Estimate materials to execute a project									
	2.2	Determine the appropriate storage facility required.									
	2.3	Maximize the use of off-cuts.									
	2.4	Estimate accessories for the cladding work									
LO 3: Determine Tools and equipment	3.1	Identify Tools & Equipment									
	3.2	Select the required Tools & Equipment									
	3.3	Estimate the required accessories for tools and equipment									

NATIONAL OCCUPATIONAL STANDARD (NOS) ON ALUMINIUM CLADDING INSTALLATION LEVEL FOUR

LEVEL 4: MASTER ALUMINIUM CLADDER

MANDATORY UNITS

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours
01	CON/ACI/001/L4	Health, Safety and Environment	2	20
02	CON/ACI/002/L4	Communication System in Work Environment	2	20
03	CON/ACI/003/L4	Team Work in Construction Environment	2	20
04	CON/ACI/004/L4	Advanced Tools and Equipment	3	30
05	CON/ACI/005/L4	Estimate and Plan Labour Requirements for Aluminium Cladding for Advanced Projects	3	30
06	CON/ACI/006/L4	Planning aluminium cladding work for advanced project	3	30
07	CON/ACI/007/L4	Project Review	3	30

08	CON/ACI/008/L4	Special and Complex Aluminium Cladding Works	3	30
	Total		21	210

Key:

CON – CONSTRUCTION

AC – ALUMINIUM CLADDING INSTALLATION UNIT 001: Health, Safety and Environment

Unit reference number: CON/ACI/001/L4

NSQ Level: 4

Credit Unit: 2

Guided learning hours: 20

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

1. Explain the meaning and importance of team health and safety in Aluminium Cladding profession
2. Identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 001: Health, Safety and Environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type						Evidence Ref. No.	Page No.
LO 1:	1.1	State the importance of maintaining good personal hygiene								
	1.2	Wear clean, smart and appropriate personal Protective Equipment								

[illegible]

Validated February 22, 2024

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

Validated February 22, 2024

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

1. Explain the meaning and importance of team communication in Aluminium Cladding profession
2. Identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 002: Communication System in Work Environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Understand Complex communication system in a work environment	1.1	Describe simple non-verbal means of communication									
	1.2	Interpret concept of symbols and signs appropriate									
	1.3	Supervise the use of audio and electronic means to pass on necessary information									
LO 2: Understand Source of information and Management in a work environment.	2.1	Participate in creating and making functional the source of information in an organization and work environment.									
	2.2	Make accessible the source of information in an organization or work environment									
	2.3	Relate appropriately with the source of information									

Validated February 22, 2024

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

EQA Signature (if sampled)

Date:

UNIT 003: Team Work in Construction Environment

Unit reference number: CON/ACI/003/L4

NSQ Level: 4 **Credit Unit:** 2

Guided learning hours: 20

Unit Purpose:

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

1. Explain the meaning and importance of team work in Aluminium Cladding profession
2. Identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 003 Team Work in Construction Environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page
LO 1: Understand Various team roles on the construction site	1.1	Distinguish among various teams e.g. Masonry, Carpentry, Iron bending, Plumbing etc.			
	1.2	Identify the role of each team.			
	1.3	Discuss the importance of each team			
	1.4	Deliver quality output as a team player			

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

LO 2: Supervise team activity.	2.1	Discuss the method of carrying out activities with team members.																	
	2.2	Distribute workload and supervise cladding work activities																	
	2.3	Select materials and tools required for each team work activity																	
	2.4	Interpret and ensure understanding of directives to team members																	
	2.5	Recognize own role and responsibilities within the team.																	
LO 3: Understand communication flow In a Team	3.1	Communicate work related information/requirements clearly to team members																	
	3.2	Inform co-workers and superiors about any kind of deviation from workplan																	
	3.3	Address the problems effectively, if need be, to superiors appropriately																	
	3.4	Gather instructions from superiors and respond effectively																	
	3.5	Supervise & communicate to team members/subordinates of the right work techniques and methods.																	
	3.6	Obtain clarification and advice from superiors as per work information were necessary																	

EQA Signature (if sampled)

Date:

UNIT 004: Advanced Tools and Equipment

Unit reference number: CON/ACI/004/L4

NSQ level: 4

Credit value: 3

Guided learning hours: 30

Unit Purpose:

This unit is designed to ensure that the learner is competent to Identify most appropriate tools required and the human resources needed to handle tools for any given Aluminium Cladding works.

By completing this mandatory unit, the learner should show competence in:

1. Selecting basic tools used in Aluminium Cladding Works.
2. Identifying portable hand tools in use in Aluminium Cladding.
3. Identifying the best cadre of personnels for given aluminum works

Unit assessment requirements/evidence requirements

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 004: Advanced Tools and Equipment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
LO 1: Understand Complex Aluminium Cladding Tools.	1.1	Identify advanced tools used in complex Aluminium Cladding Works			
	1.2	Select appropriate advanced tools used in complex Aluminium Cladding Works			
	1.3	Use advanced tools for Aluminium Cladding Works in accordance with safety regulations.			

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

UNIT 005: Estimate and Plan Labour Requirements for Aluminium Cladding for Advanced Projects

Unit reference number: CON/ACI/005/L4

NSQ level: 4

Credit value: 3

Guided learning hours: 30

Unit Purpose:

This unit is designed to ensure that the learner is competent to estimate and plan labour requirement for Aluminium Cladding works.

By completing this mandatory unit, the learner should show competence in:

1. Selecting basic tools used in Aluminium Cladding Works.
2. Identifying portable hand tools in use in Aluminium Cladding.
3. Identifying the best cadre of personnels for given aluminum works

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT

005 Estimate and Plan Labour Requirements for Aluminium Cladding for Advanced Projects

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Analyse project specifications and requirements.	1.1	Interpret and understand project specifications and drawings accurately									
	1.2	Identify factors that influence labour requirements, such as surface area, design complexity, scope of the project, environment, project duration, etc.									
	1.3	Mention factors that may affect labour estimates such as weather, change in preference by the client									
	1.4	Identify how to mitigate factors that may affect labour estimates in 1.3 above									
LO 2: Carry out estimating for Aluminium Cladding in Complex project.	2.1	Demonstrate the allocation of labour resources efficiently for Complex project.									
	2.2	Demonstrate estimating of materials, tools and equipment required for aluminium cladding in complex project.									
	2.3	Supervise estimates for aluminium Cladding.									
LO 3:	3.1	Monitor labour usage in real-time for conformity with labour requirements.									

Understand ways to adjust labour requirements during the project lifecycle	3.2	Monitor material usage in real-time for conformity with materials requirements.											
	3.3	Identify deviations from the initial labour plan.											
	3.4	Identify impact of labour plan deviation on project budget.											

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

UNIT

006: Planning Aluminium Cladding Work for Advanced Project

Unit reference number: CON/ACI/006/L4 NSQ level: 4

Credit value: 3

Guided learning hours: 30

Unit Purpose:

This unit is designed to ensure that the learner is competent in planning Aluminium cladding works for advanced project.

By completing this mandatory unit, the learner should show competence in:

1. Selecting basic tools used in Aluminium Cladding Works.
2. Identifying portable hand tools in use in Aluminium Cladding.
3. Identifying the best cadre of personnels for given aluminum works

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT

006: Planning Aluminium Cladding Work for Advanced Project

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

UNIT

EQA Signature (if sampled)

Date:

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Demonstrate general understanding of advanced techniques for installing aluminium cladding systems	1.1	Demonstrate proficiency in implementing innovative cladding solutions.									
	1.2	Demonstrate proficiency in implementing efficient cladding solutions.									
	1.3	Incorporate emerging trends in aluminium cladding installation.									
LO 2: Analyze and evaluate project specifications	2.1	Evaluate project specifications to identify suitable materials.									
	2.2	Analyze project specifications to identify suitable installation methods.									
	2.3	Make decisions for materials that optimize durability.									
	2.4	Select installation methods that optimize comfort of users.									
	2.5	Decide installation methods that optimize durability.									
LO 3: Develop project plans that integrate industry best practices, safety procedures	3.1	Integrate safety protocols to ensure a secure work environment.									
	3.2	Create comprehensive project plans that incorporate industry best practices									
	3.3	Monitor environmental sustainability in the project plan									
	3.4	Monitor environmental sustainability in the project execution									

UNIT

007: Project Review

Reference number: CON/ACI/007/L4

NSQ level: 4

Credit value: 3

Guided learning hours: 30

Unit Purpose:

The unit purpose of "Project Review in Aluminum Cladding Installation Works" is to systematically evaluate the progress, performance, and outcomes of aluminum cladding installation projects.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

007: Project Review

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
LO 1: Understand the technical aspects in the installation and maintenance of	1.1	Identify advanced techniques and materials used in aluminium cladding			
	1.2	Resolve technical challenges encountered during installation and maintenance of aluminium cladding systems			

UNIT

[illegible]

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

EQA Signature (if sampled)

Date:

UNIT 008: Special and Complex Aluminium Cladding Works

Reference number: CON/ACI/008/L4

NSQ level: 4

Credit value: 3

Guided learning hours: 30

Unit Purpose:

The unit purpose of "Special and Complex Aluminum Cladding Works in Aluminum Cladding Installation" is to equip individuals with the specialized knowledge, skills, and techniques required to handle unique and intricate aluminum cladding projects.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 008: Special and Complex Aluminium Cladding Works

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
LO 1: Understand the various complex forms of Aluminium cladding installations.	1.1	Identify the complex areas of Aluminium cladding works.			
	1.2	Interpret drawings for a complex design			
	1.3	Describe details of wet(closed) installation system			
	1.4	Describe details of dry(gap) installation system			
LO 2: Understand the factors to be considered in the fulfilling the	2.1	Explain thermal performance in complex aluminium cladding works			
	2.2	Explain water management in sloped complex aluminium cladding works			

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

NATIONAL OCCUPATIONAL STANDARD (NOS) ON ALUMINIUM CLADDING INSTALLATION LEVEL FIVE

LEVEL 5: EXPERT ALUMINIUM CLADDER

MANDATORY UNITS

Unit	Unit Reference Number	Unit Title	Credit Value	Guided Learning Hours
01	CON/ACI/001/L5	Health, Safety and Environment	2	20
02	CON/ACI/002/L5	Communication system in Work Environment	2	20
03	CON/ACI/003/L5	Team Work in Construction Environment.	2	20
04	CON/ACI/004/L5	Terminology and construction practices in aluminium cladding installation	3	30
05	CON/ACI/005/L5	Advanced Aluminium cladding installation	3	30
06	CON/ACI/006/L5	Understand Building Codes and Standards	3	30
07	CON/ACI/007/L5	Advanced Problem-solving techniques	3	30

08	CON/ACI/008/L5	Time Management and Project Planning	3	30
09	CON/ACI/009/L5	Tasks and duties	2	20
010	CON/ACI/011/L5	Prepare work areas on aluminium claddings	3	30
011	CON/ACI/012/L5	Workplace mentoring	3	30
	Total		27	270

Key:

CON – CONSTRUCTION

AC – ALUMINIUM CLADDING INSTALLATION UNIT 001: Health, Safety and Environment
Unit reference number: CON/ACI/001/L5

NSQ Level: 5
Credit Unit: 2
Guided learning hours: 20

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

1. Explain the meaning and importance of team health and safety in Aluminium Cladding profession
2. Identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 001: Health, Safety and Environment.

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page
LO 1: Demonstrate Personal health and hygiene	1.1	State the importance of maintaining good personal hygiene			
	1.2	Wear clean, smart and appropriate personal Protective Equipment			
	1.3	Work safely at all times, complying with health and safety and other relevant regulations and guidelines.			
	1.4	Describe how to deal with cuts, grazes and wounds and why it is important to do so			
	1.5	Follow safety protocols for treatments of any cut, grazes and wounds			
	1.6	Report illness and infection promptly to the appropriate person			
	1.7	Supervise the use of Personal Protection Equipment such as Head Protection, Foot Protection, Face and eye Protection, Hand and Body protection and regulatory protection.			
	1.8	Summarize own responsibility under the health and safety Act as it relates to own occupation.			
	1.9	Guide Junior workmen & others on general rules of hygiene that must be followed while working on site			
LO 2: Maintain Hygienic, safe and hazard-free workplace.	2.1	State the importance of working in a healthy, safe and hygienic workplace			
	2.2	Determine the appropriate storage facility required.			
	2.3	Report any accidents or near accidents quickly and accurately to the proper person.			
	2.4	Promote health, hygiene and safety procedures during work			
	2.5	State procedure for disposal of waste			

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
	2.6	Supervise identification of any hazards or potential hazards and deal with these correctly									
	2.7	State where information about health and safety in your workplace can be obtained									
LO 3: Demonstrate safe and Secure workplace practices	3.1	Carry out organizational procedures on how to warn other people about hazards and why this is important									
	3.2	State why accidents and near-accidents should be reported and who they should be reported to									
	3.3	Describe the types of emergencies that may happen in the workplace and how to deal with them									
	3.4	Indicate where to find the first-aid equipment and locate the authorized personnel									
	3.5	Lift and handle materials in line with work environment procedure.									
	3.6	State other ways of working safely that are relevant to own position & responsibility									
	3.7	Describe organizational emergencies procedures, in particular fire, and how these should be followed									
	3.8	State the possible causes for fire in the own area of work									
	3.9	Describe how to minimize the possibility of fire in the Aluminium cladding workplace									
	3.10	State where to find the alarms and how to set them off									
	3.11	State the importance of following the fire safety laws									
	3.12	State the importance of reporting all usual or non- routine incidents to the appropriate personnel									
	3.13	Ensure security procedure for the movement of personnel and visitors are followed in your work environment									

	3.14	Ensure security of equipment's in work environment within your responsibility											
LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.					
	3.15	Describe organizational security procedures in own area of works and why it is important											
LO 4: Understanding of safety protocols and regulations	4.1	Display a comprehensive knowledge of relevant safety regulations, including OSHA (Occupational Safety and Health Administration) standards											
	4.2	Implement proper safety measures and protocols consistently to ensure a safe work environment for the team and others on the job site											
	4.3	Conduct regular safety briefings and training sessions for team members, emphasizing the importance of safety compliance											
	4.4	Develop and maintain an up-to-date safety plan for aluminium cladding installation projects, including emergency response procedures											
	4.5	Participate in safety audits and inspections, addressing any identified issues promptly and effectively to maintain a safe workplace											

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

UNIT 002: Communication System in Work Environment

Unit reference number: CON/ACI/002/L5

NSQ Level: 5 Credit Unit: 2

Guided learning hours: 20

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

1. Explain the meaning and importance of team communication in Aluminium Cladding profession
2. Identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 002: Communication System in Work Environment

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
LO 1: Understand Complex communication system in a work environment	1.1	Describe simple non-verbal means of communication			
	1.2	Interpret concept of symbols and signs appropriate			
	1.3	Supervise the use of audio and electronic means to pass on necessary information			
LO 2:	2.1	Participate in creating and making functional the source of information in an organization and work environment.			

Validated February 22, 2024

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

UNIT 003: Team Work in Construction Environment

Unit reference number: CON/ACI/003/L5

NSQ Level: 5 Credit Unit: 2

Guided learning hours: 20

Unit Purpose:

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

1. Explain the meaning and importance of team work in Aluminium Cladding profession
2. identify own role and responsibilities within the team.
3. Recognize the benefit and scope of work to be executed

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 003: Team Work in Construction Environment.

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page
LO 1:	1.1	Distinguish among various teams e.g. Masonry, Carpentry, Iron bending, Plumbing etc.			

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

EQA Signature (if sampled)

Date:

UNIT 004: Terminology and Construction Practices in Aluminium

Cladding Installation Unit reference number: CON/ACI/004/L5 NSQ level: 5

Credit value: 3

Guided learning hours: 30

Unit Purpose:

This unit purpose is to enable learners master the terminology used in the field of aluminum cladding, ensuring clear communication and effective collaboration with professionals in the industry.

Unit assessment requirements/evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development training 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)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 004: Terminology and Construction Practices in Aluminium Cladding Installation

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
LO 1: Demonstrate the knowledge of industry terminologies	1.1	List industry terminologies in aluminium cladding installations			
	1.2	Explain industry terminologies such as anodized aluminium, cassette cladding, curtain wall, bearing, buffing, deburring (dulling)			
	1.3	Apply any of the above in a given task			
LO 2: Demonstrate the methods in	2.1	Describe methods used in aluminium cladding installation			
	2.2	Sketch a section of aluminium cladded wall			

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

UNIT 005: Advanced Aluminium Cladding Installation Techniques

Unit Reference number: CON/ACI/005/L5

NSQ Level: 5
Credit Unit: 3
Guided learning hours: 30

Unit Purpose:

This unit is designed to ensure that the learner effectively is competent to supervise installed Claddings in work environment. To be able to Identify alignments and levels of installed cladding works.

Unit assessment requirements/evidence requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 005: Advanced Aluminium Cladding Installation Techniques

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. No.	Page No.
LO 1: Master techniques for cutting, shaping, and joining aluminium cladding materials	1.1	Explain different aluminium cladding material types and their compatibility with specific cutting and joining methods			
	1.2	Cut and shape aluminium cladding materials, ensuring clean edges and precise measurements			
	1.3	Demonstrate proficiency in various cutting methods, including shearing, sawing, and routing			
	1.4	Join cladding panels using appropriate fastening and bonding techniques, achieving seamless and secure connections			

Validated February 22, 2024

Unit assessment requirements/evidence requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

006: Understand Building Codes and Standards

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Understand relevant building codes and standards	1.1	Interpret relevant building codes and standards									
	1.2	Apply relevant building codes and standards									
	1.3	Comply with legal requirements for cladding installation									
	1.4	Check work progress to verify that it aligns with the established codes and standards									
	1.5	Engage in continuous professional development									
LO 2: Understand Fire Safety Regulations	2.1	Interpret fire safety regulations									
	2.2	Apply fire safety regulations in aluminium cladding installations									
	2.3	Conduct regular inspections to verify fire safety compliance									
	2.4	Maintain records of fire safety compliance									
	2.5	Communicate emergency response plan to relevant stakeholders									
LO 3: Stay updated on evolving building codes and industry standards	3.1										
	3.2	Subscribe to and monitor industry publications, newsletters, and governmental notifications for the latest code and standard changes									
	3.3	Provide training sessions or resources to team members on updated codes and standards									
	3.4	Ensure that all projects initiated after code updates are designed and executed according to the latest standards									
	3.5	Regularly assess the impact of updated codes and standards on ongoing projects and make necessary adjustments to mitigate any compliance risks									

UNIT

LO 4: Collaborate with project stakeholders to ensure that	4.1	Maintain open and effective communication with all project stakeholders											
	4.2	Schedule regular project meetings to discuss compliance issues, seek clarifications, and make											
LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.					
installations adhere to legal requirements		collaborative decisions when necessary											
	4.3	Ensure that project documentation, such as change orders, permits, and inspection reports, reflects agreed-upon legal requirements and decisions											
	4.4	Mediate and resolve any conflicts or discrepancies related to legal requirements between different project stakeholders											
	4.5	Encourage feedback from all parties and incorporate it into the project execution process											

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

EQA Signature (if sampled)

Date:

007: Advanced Problem-Solving Techniques

Unit Reference number: CON/ACI/007/L5

NSQ Level: 5

Credit Unit: 3

Guided learning hours: 30

Unit Purpose:

This unit is design to equip the learners with the advanced skills and knowledge necessary to identify, analyze, and solve complex problems that may arise during aluminum cladding installation projects.

Unit assessment requirements/evidence requirements:

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

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT

007: Advanced Problem-Solving Techniques

<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> Learners Signature: Assessors Signature: IQA Signature (if sampled) </div> <div style="width: 35%;"> Date Date: Date: </div> </div>				
<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> EQA Signature (if sampled) </div> <div style="width: 35%;"> Date: </div> </div>				
LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.

UNIT

It's important to align assessment methods with the learning outcomes specified in the unit and to ensure that the assessments provide a comprehensive evaluation of learners' competence in time management and project planning for aluminum cladding installation works.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

008: Time Management and Project Planning

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type	Evidence Ref. Page No.
LO 1: Understand how to produce work programme.	1.1	Prepare detailed project plans that include a schedule, task breakdown, and resource allocation		
	1.2	Allocate resources such as materials, equipment and labour		
	1.3	Develop project plans that are within cost limits		
	1.4	Identify potential risks and challenges in the project plan		
	1.5	Communicate project plans to stakeholders		
LO 2: Understand time and material management	2.1	Execute project tasks in line with programme of works		
	2.2	Manage resource wastage by ensuring efficient use of materials, equipment, and labour.		
	2.3	Monitor project expenses and ensure that they align with the budget		
	2.4	Implement strategies to improve productivity and reduce downtime		

UNIT

LO 3: Optimize installation techniques and adapt to project-specific challenges	3.1	Adapt to changing project priorities, such as unexpected design modifications or site conditions								
	3.2	Manage tasks and allocate resources to accommodate shifts in project timelines.								
	3.3	Collaborate with team members and project managers to ensure smooth adjustments								
	3.4	Resolve unexpected challenges and delays by quickly identifying solutions and implementing them								
	3.5	Maintain clear and up-to-date project records to document changes, adjustments, and their impact on the project timeline								

Learners Signature:

Date

Assessors Signature:

Date:

IQA Signature (if sampled)

Date:

EQA Signature (if sampled)

Date:

UNIT 009: Tasks and Duties

Unit Reference number: CON/ACi/009/L5

NSQ Level: 5
Credit Unit: 2
Guided learning hours: 20

Unit Purpose:

This unit is designed to provide individuals with a comprehensive understanding of the specific tasks and duties involved in the installation of aluminum cladding systems.

Unit assessment requirements/evidence requirements

Assessment methods should align with the learning outcomes specified in the unit, providing a comprehensive evaluation of learners' competence in understanding, planning, and executing tasks and duties related to aluminum cladding installation. The evidence gathered should be sufficient to demonstrate that learners can contribute effectively to the successful completion of aluminum cladding projects.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 009: Tasks and Duties

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Understand the roles and responsibilities of cadres of aluminium cladders	1.1	Describe the specific responsibilities and tasks associated with the role of an aluminium cladder.								
	1.2	Interpret site-specific requirements, such as architectural drawings, specifications, and project plans								
	1.3	Demonstrate a thorough understanding of safety regulations and best practices								

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

EQA Signature (if sampled)

Date:

UNIT 010 Prepare Work Areas on Aluminium Claddings.

Unit Reference number: CON/ACI/010/L5

NSQ Level: 5
Credit Unit: 3
Guided learning hours: 30

Unit Purpose:

The unit purpose is design to provide the learners with the necessary knowledge and skills to effectively prepare work areas for the installation of aluminum cladding systems.

Unit assessment requirements/evidence requirements:

Assessment methods should align with the learning outcomes specified in the unit, providing a comprehensive evaluation of learners' competence in preparing work areas for aluminum cladding installation work.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 010 Prepare Work Areas on Aluminium Claddings

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.			
LO 1: Prepare substrate to receive Aluminium Cladding	1.1	Evaluate the condition of the existing structure to identify any imperfections, damage, or irregularities that may impact cladding installation									
	1.2	Demonstrate the ability to effectively prepare the substrate									
	1.3	Check that the prepared substrate is compatible with the specific type of aluminium cladding materials to be installed									
	1.4	Achieve a level of surface cleanliness and smoothness that meets project specifications									
	1.5	Maintain accurate records and documentation of the preparation process, including any modifications or treatments applied									
LO 2: Surface cleaning, and levelling	2.1	Removal of contaminants from the substrate to ensure a clean surface									
	2.2	Clean the substrates to achieve smooth and even surface, taking into account the type of cladding system being used									
	2.3	Follow manufacturer's guidelines for substrate preparation									
	2.4	Choose and apply substrates preparation that are compatible with the specific aluminium cladding materials									
	2.5	Conduct inspections to confirm that the cleaned, levelled, and prepared surface meets the required standards and quality expectations									

LO 3: Surface treatments	3.1	Identify appropriate surface treatments, such as priming, waterproofing, or weatherproofing materials											
LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.					
	3.2	Apply surface treatments correctly											
	3.3	Ensure that the application of surface treatments aligns with the project plans											
	3.4	Conduct tests to confirm the effectiveness of surface treatments, making adjustments or corrections											
	3.5	Conduct inspections to confirm the effectiveness of surface treatments, making adjustments or corrections											

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

UNIT 011: Workplace Mentoring

Unit Reference number: CON/AC1/011/L5

NSQ Level: 5
Credit Unit: 3
Guided learning hours: 30

Unit Purpose:

The unit purpose underscores the significant role of workplace mentoring in nurturing the professional and personal development of individuals engaged in aluminum cladding installation works. Through mentorship, learners can benefit from the experience, guidance, and support of seasoned professionals, ultimately contributing to their success in the field.

Unit assessment requirements/evidence requirements:

Assessment methods should align with the learning outcomes specified in the unit, providing a comprehensive evaluation of the impact of workplace mentoring on learners' competence and development in aluminum cladding installation works.

Assessment methods to be used include:

1. Direct Observation (DO)
2. Question and Answer (QA)
3. Witness Testimony (WT)
4. Personal statement (PS)
5. Work product (WP)
6. Professional Discussion (PD)

UNIT 011: Workplace Mentoring

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type				Evidence Ref. Page No.			
LO 1: Mentor and guide team members	1.1	Mentor team members								
	1.2	Provide guidance to mentees								
	1.3	Support mentees to understand complex techniques								
LO 2: Create a collaborative and inclusive work environment	2.1	Promote collaboration among team members.								
	2.2	Encourage a culture of respect and inclusivity within the work environment								
	2.3	Involve team members in decision-making processes								
	2.4	Recognize diverse perspectives and contributions within the team								
	2.5	Create opportunities for skill-sharing, cross-training to enhance the overall team's capabilities								
LO 3: Provide Feedback to mentees	3.1	Provide feedback that is specific, actionable and delivered in a respectful manner								
	3.2	Identify areas for improvement for team members								

	3.3	Collaborate with mentees to develop personalized development plans and goals											
	3.4	Monitor progress of mentees											
	3.5	Adjust coaching and strategies to support continuous improvement											
LO 4: Promote the importance of continuous learning	4.1	Demonstrate good leadership through personal commitment to ongoing learning and development											
	4.2	Share information about relevant industry trends, technologies, and best practices											
LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA The learner can:	Evidence Type					Evidence Ref. Page No.					
and professional development	4.3	Encourage participation in training, workshops, and industry events											
	4.4	Identify opportunities for certification or further education											

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