

TECHNICAL & VOCATIONAL EDUCATION & TRAINING

National Competency Standard for
Shuttering Carpenter
Qualification Code: CON06S09VI

PREFACE

The ADB Loan 2028 MLD, Employment Skills Training Project's (ESTP) objective is to increase the number of Maldivians, men and women, actively participating in the labor force, employed and self employed. The Project will support the expansion of demand driven employment-oriented skills training in priority occupations and improve the capacity to develop and deliver Competency Based Skill Training (CBST). The Project aims to (i) provide youth with employment-oriented skills training; (ii) improve public perception of training and employment in locally available skills-oriented occupations; (iii) make available employment-related information to more Maldivians; and (iv) strengthen the capacity for labor administration and for labor market analysis.

The objective of the project is to deliver CBST programs to satisfy employer demand-driven needs. The National Competency Standards (NCS) provide the base for this training. Initially training will be focused on five key sectors: tourism, fisheries and agriculture, transport, construction and the social sectors. These sectors are included as priority sectors in the national development plan and play a vital role in the continued economic growth of the country.

The NCS are developed in consultation with Employment Sector Councils representing employers. They are designed using a consensus format endorsed by the Maldives Accreditation Board (MAB) to maintain uniformity of approach and the consistency of content amongst occupations. This single format also simplifies benchmarking the NCS against relevant regional and international standards.

NCS specify the standards of performance of a competent worker and the various contexts in which the work may take place. NCS also describes the knowledge, skills and attitudes required in a particular occupation. They provide explicit advice to assessors and employers regarding the knowledge, skills and attitudes to be demonstrated by the candidates seeking formal recognition for the competency acquired following training or through work experience. By sharing this information, all participants in the training process have the same understanding of the training required and the standard to be reached for certification. Certification also becomes portable and can be recognized by other employers and in other countries with similar standards.

NCS are the foundation for the implementation of the Technical and Vocational Education and Training (TVET) system in Maldives. They ensure that all skills, regardless of where or how they were

developed can be assessed and recognized. They also form the foundation for certifying skills in the Maldives National Qualification Framework (MNQF).

NCS are developed by the TVET Section of Ministry of Higher Education, Employment and Social Security. The NCS are endorsed by the Employment Sector Councils of the respective sectors and validated by the Maldives Qualification Authority.

Technical Panel members					
Name	Company				
Mr. Mohamed Ali Janaah	CEO	Alyson Service			
Mr. Mohamed Hashim	principal	MIVET			
Mr. Advan Halaan	Managaina Director	Alihavaasa Construction &			
Mr. Adnan Haleem	Managing Director	Carpentry			
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	Developer	1			
Name	Designation	Company			
	-	MHRYS			
TVET					
	Employment Sector Coun	cils			
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Mr. Abdulla Mohamed	Managing Director	Amin Construction			
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Mr. Mohamed Ali	Deputy Director	Infrastructure			
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Mr. Adnan Haleem	Managing Director	Carpentry			
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Mr. Ahmed Shiyau	Manager Admin	Pvt Ltd			
Mr. Ahmed Shiyam	Operation Manager	Rainbow Construction Pvt Ltd			
Mr. Mohamed Aswan	Operation Executive	AIMA Construction			

National Competency Standard has been Endorsed by			
Chariman, Construction Sector Council	vice Chairman, Construction Sector Council		
Contact for Comments			
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Date of Endorsement:	Date of revision		

KEY FOR CODING

Coding Competency Standards and Related Materials

DESCRIPTION	REPRESENTED BY
Industry Sector as per ESC	Construction Sector (CON)
(Three letters)	Fisheries and Agriculture Sector (FNA)
	Transport sector (TRN)
	Tourism Sector (TOU)
	Social Sector (SOC)
	Foundation (FOU)
Competency Standard	S
Occupation with in a industry Sector	Two digits 01-99
Unit	U
Common Competency	1
Core Competency	2
Optional/ Elective Competency	3
Assessment Resources Materials	Α
Learning Resources Materials	L
Curricula	С
Qualification	Q1, Q2 etc
MNQF level of Qualification	L1, L2 etc
Version Number	V1, V2 etc
Year of endorsement of standard,	By two digits Example- 07
qualification	

1. Endorsement Application for Qualification 01

2. NATIONAL CERTIFICATE II IN SHUTTERING CARPENTRY

3. Qualification code: CON06SQ1L209 Total Number of Credits:67

4. Purpose of the qualification

The holders of this qualification will be competent to work in the Construction Sector as a shuttering carpenter. The level II qualification presented here will facilitate preparing students to the entry workplace tasks and the competency units are mapped in such a way to fulfil the knowledge and skills requirements of the "shuttering carpenter" occupation within the local construction Industry.

5. Regulations for the qualification

National Certificate III in the occupation of shuttering carpenter will be awarded to those who are competent in units 1+2+3+4+5+6+7+8+9+10+11+12

6. Schedule of Units

Unit Title	Unit Title	Code
1	Practice Occupational Health and Safety Procedures	CON06S1U01VI
2	Participate in 'workplace communication	CON06S1U02VI
3	Work in a Team Environment	CON06S1U03VI
4	Observe Procedures, Specifications and Manuals of Instruction	CON06S1U04VI
5	Perform Mensurations and Calculations	CON06S2U01VI
6	Prepare Construction Materials and Tools	CON06S2U02VI
7	Maintain Tools and Equipment	CON06S2U03VI
8	Prepare Stake-Out Building Lines	CON06S2U04VI
9	Fabricate Formworks	CON06S2U05VI
10	Install Formwork Components	CON06S2U06VI
11	Strip Formworks Components	CON06S2U07VI
12	Install Framing Works	CON06S2U08VI

7. Accreditation requirements

The training provider should have a workshop or similar training facility to provide the trainees the hands-on experience related to this qualification

8. Recommended sequencing	As appearing under the section 06
of units	

UNITS DETAILS

no	Unit Title	Code	Level	No of
				credits
1	Practice Occupational Health and Safety Procedures	CON06S1U01VI	2	6
2	Participate in 'workplace communication	CON06\$1U02VI	2	5
3	Work in a Team Environment	CON06\$1U03VI	2	3
4	Observe Procedures, Specifications and Manuals of Instruction	CON06S1U04VI	2	3
5	Perform Mensurations and Calculations	CON06S2U01VI	2	3
6	Prepare Construction Materials and Tools	CON06S2U02VI	2	3
7	Maintain Tools and Equipment	CON06S2U03VI	2	3
8	Prepare Stake-Out Building Lines	CON06S2U04VI	2	7
9	Fabricate Formworks	CON06S2U05VI	2	8
10	Install Formwork Components	CON06S2U06VI	2	8
11	Strip Formworks Components	CON06S2U07VI	2	6
12	Install Framing Works	CON06S2U08VI	2	12

Packaging of National Qualifications:

National certificate III in Shuttering Carpentry will be awarded to those who are competent in No 1+2+3+4+5+6+7+8+9+10+11+12

Qualification Code: CON06SQ1L209

COMPETENCY STANDARDS FOR

SHUTTERING CARPENTER

Unit No	Unit Title
1.	Practice Occupational Health and Safety Procedures
2.	Participate in 'workplace communication
3.	Work in a Team Environment
4.	Observe Procedures, Specifications and Manuals of Instruction
5.	Perform Mensurations and Calculations
6.	Prepare Construction Materials and Tools
7.	Maintain Tools and Equipment
8.	Prepare Stake-Out Building Lines
9.	Fabricate Formworks
10.	Install Formwork Components
11.	Strip Formworks Components
12.	Install Framing Works

DESCRIPTION OF AN SHUTTERING CARPENTER

Shuttering carpenter will be working front line of the construction industry. Shuttering carpenters who are competent in this standard will be equipped to make shuttering (framework), and will measure the accuracy of the form work made for the concrete pouring to cast the concrete in. Shuttering carpenters will be working under the supervision of site supervisor.

COMPETENCY STANDARD DEVELOPMENT PROCESS

The competencies were determined based on the analysis of the tasks expected to be performed by the shuttering in the Maldives. The task analysis was based on the existing job descriptions used in both private and public sector. Competency standards used for similar type of training in other countries were also examined.

UNIT TILE	Practice Occupational Health and Safety Procedures							
DESCRIPTOR	This unit cove	nis unit covers the outcomes required to comply with regulatory and						
	organizational requirements for occupational health and safety.							
CODE	CON06S1U01VI	LEVEL	2	CREDIT	6			

ELEMENTS OF COMPETENCE	PERFORMA	ANCE CRITERIA
1. Identify Hazards and	1.1.	Safety regulations and work place safety and
Risk		hazard control practices and procedures are
		clarified and explained based on organization
		procedures
	1.2.	Hazards/risks in the workplace and their
		corresponding indicators are identified and
		minimize or eliminate risk to co-workers, workplace
		and environment in accordance with organization
		procedures
	1.3.	Contingency measures during workplace
		accidents, fire and other emergencies are
		recognized and established in accordance with
		organization procedures
2. Evaluate Hazards	2.1.	Terms of maximum tolerable limits when exceeded
and Risk		will result in harm or damage are identified based
		on threshold limit values (TLV)
	2.2.	Effects of the hazards are determined
	2.3.	Occupational Health and Safety (OHS) issues and
		identified safety hazards are reported to
		designated personnel in accordance with
		workplace requirements and relevant workplace
		OHS legislation
3. Control Hazards and	3.1.	Occupational Health and Safety (OHS) procedures
Risk		for controlling hazards/risk in workplace are
		consistently followed
	3.2.	Procedures for dealing with workplace accidents,
		fire and emergencies are followed in accordance

			with organization OHS policies
		3.3.	Personal protective equipment (PPE) is correctly
			used in accordance with organization OHS
			procedures and practices
4. Maintain	OHS	4.1.	Emergency -related drills and trainings are
awareness			participated in as per established organization
			guidelines and procedures
		4.2.	OHS personal records are completed and updated
			in accordance with workplace requirements

Unsafe situations may include but not limited to sharp cutting tools and instruments, fire hazards, spillage of materials, toxic chemical substances and faulty electrical wirings.

Safety regulations may include observance of Building Code, Fire Safety Code.

Hazard risks may include but not limited to physical, biological and chemical hazards.

Tools and Equipment used in this unit may include

The tools and equipment may include mask, gloves, goggles, Face mask/shield, ear muffs and overalls/jump suit.

Materials may include

 Occupational Health and Safety Records; which includes Incident reports, Accident reports.

ASSESSMENT GUIDE

Forms of Assessment

Competency may be assessed through:

- Portfolio Assessment
- Interview
- Case Study/Situation

Assessment context

Competency may be assessed in the work place or in a simulated work place setting

Critical Aspects (for assessment)

Assessment requires evidence that the candidate:

- Explained clearly established workplace safety and hazard control practices and procedures
- Identified hazards/risks in the workplace and its corresponding indicators in accordance with company procedures
- Recognized contingency measures during workplace accidents, fire and other emergencies
- Identified terms of maximum tolerable limits based on threshold limit value-TLV.
- Followed Occupational Health and Safety (OHS) procedures for controlling hazards/risks in workplace
- Used Personal Protective Equipment (PPE) in accordance with company OHS procedures and practices
- Completed and updated OHS personal records in accordance with workplace requirements

Resources required for assessment

The following resources must be provided:

- Workplace or assessment location
- OHS personal records
- PPE
- Health records

Underpinning Knowledge	Underpinning Skills
OHS procedures and practices and	Practice of personal hygiene
regulations	Hazards/risks identification and control
 PPE types and uses 	skills

- Personal hygiene practices
- Hazards/risks identification and control
- Threshold Limit Value -TLV
- OHS indicators
- Organization safety and health protocol
- Safety consciousness
- Health consciousness

- Interpersonal skills
- Communication skills

UNIT TILE	Participate in 'workplace communication				
DESCRIPTOR	This unit covers the knowledge, skills and attitudes required to gather, interpret				
	and convey information in response to workplace environment.				
CODE	CON06\$1U02VI	LEVEL	2	CREDIT	5

ELEMENTS OF COMPETENCIES	PERFORMA	ANCE CRITERIA
1. Obtain and convey	1.1.	Effective questioning, active listening and speaking
workplace		skills are used to gather and convey information
information	1.2.	Specific and relevant information accessed from
		appropriate sources
	1.3.	Appropriate medium is used to transfer information
		and ideas
	1.4.	Appropriate non-verbal communication is used
	1.5.	Appropriate lines of communication with
		supervisors and colleagues are identified and
		followed
	1.6.	Defined workplace procedures for the location
		and storage of information used
	1.7.	Personal interaction is carried out clearly and
		concisely
2. Participate in	2.1.	Team meetings are attended on time
workplace meetings	2.2.	Meeting inputs are consistent with the meeting
		purpose and established protocols
	2.3.	Workplace interactions are conducted in a
		courteous manner
	2.4.	Meetings outcomes are interpreted and
		implemented
3. Complete relevant	3.1.	Ranges of forms relating to conditions of
work related		employment are completed accurately and
documents		legibly
	3.2.	Workplace data is recorded on standard
		workplace forms and documents
	3.3.	Errors in recording information on forms

/documents	are	identified	and	properly	acted
upon					

This may include but not limited to working with team members, contact with suppliers of materials, follow notices, circulars and memorandums, face to face communications with team members, observing meeting, compliance and obeying meeting instructions.

Tools, Equipment and machinery used in this unit may include

Equipment in this area may include:

- Telephone
- Mobile phone
- Forms
- Memo
- Electronic and two way radio
- Fax machines
- Computer

Materials may include:

- Personnel forms
- Memos,
- Instruction forms
- Safety report form
- Fax

ASSESSMENT GUIDE

Forms of Assessment

- Direct Observation
- Oral interview and written test

Assessment Context

Competency may be assessed individually in the actual workplace or through accredited institution

Critical Aspects (for assessment)

Assessment requires evidence that the candidate:

- Prepared written communication following standard format of the organization
- Accessed information using communication equipment
- Made use of relevant terms as an aid to transfer information effectively
- Conveyed information effectively adopting the formal or informal communication

Resources required for Assessment

The following are required for assessment.

- Fax machine
- Telephone
- Writing materials
- Internet
- Computers

Underpinning Knowledge	Underpinning Skills		
Effective communication Different modes of communication Written communication Organizational policies Communication procedures and Technology relevant to the enterprise	 Follow simple spoken language Perform routine workplace duties following simple written notices Participate in workplace meetings and discussions 		

UNIT TILE	Work in a Team Environment					
DESCRIPTOR	This unit cover	s the skills, ki	nowledge and	attitudes to id	entify role and	
	responsibility as a member of a team.					
CODE	CON06S1U03VI	LEVEL	2	CREDIT	3	

Elements of Competence	Performance Criteria
1. Describe team role	1.1. The role and objective of the team is identified
and scope	from available sources of information
	1.2. Team parameters, reporting relationships and
	responsibilities are identified from team discussions
	and appropriate external sources
2. Identify own role and	2.1. Individual role and responsibilities within the team
responsibility within	environment are identified
the team	2.2. Role and responsibility of other team members are
	identified and recognized
	2.3. Reporting relationships within team and external to
	team are identified
3. Work as a Team	3.1. Effective and appropriate forms of
Member	communications used and interactions
	undertaken with team members who contribute to
	known team activities and objectives
	3.2. Effective and appropriate contributions made to
	complement team activities and objectives, based
	on individual skills and competencies and work
	place context
	3.3. Observe protocols in reporting and using standard
	operating procedures
	3.4. Contribute to development of team work plans
	based on understanding and individua
	competencies of the members

The activities in this unit may include working in a team environment with specific enterprise or sector.

Limited discretion, initiative and judgement demonstrated on the job, either individually or in a team environment, observance of occupational Health and Safety Standards, follow standard operating and/or other workplace procedures, follow safety, environmental, housekeeping and quality guidelines and follow job procedures

Tools, Equipment and machinery used in this unit may include

- Telephone
- Mobile Phone
- Fax Machine
- Internet
- Computer

Materials may include:

Materials related to this activity may include

- Writing materials
- Memos
- Instruction forms

ASSESSMENT GUIDE

Forms of Assessment

Competency may be assessed through:

- Observation of the individual member in relation to the work activities of the group
- Observations of simulation and or role play involving the participation of individual member to the attainment of organizational goal

Assessment Context

Competency may be assessed in workplace or in a simulated workplace setting

Assessment shall be observed while task are being undertaken whether individually or in group

Critical Aspects (for assessment)

Assessment requires evidence that the candidate:

- Operated in a team to complete workplace activity
- Worked effectively with others
- Conveyed information in written or oral form
- Selected and used appropriate workplace language
- Followed designated work plan for the job

Resources Required for Assessment

The following resources MUST be provided:

- Access to relevant workplace or appropriately simulated environment where assessment can take place
- Materials relevant to the proposed activity or tasks

Underpinning Knowledge	Underpinning Skills
Communication process	Communicate appropriately,
Team structure	consistent with the culture of the
Team roles	workplace
Group planning and decision making	 Inter personal skills

UNIT TITLE	Observe Procedures, Specifications and Manuals of Instruction				
DESCRIPTOR	This unit covers the knowledge, skills and attitudes on identifying, interpreting				
	and applying services to specification and procedures are identified.				
CODE	CON06S1U04VI	LEVEL	2	CREDIT	3

ELEMENTS	ELEMENTS OF COMPETENCIES		ANCE CRITERIA
1. Ic	dentify and access	1.1.	Appropriate manuals are identified and accessed
S	pecification/manu		as per job requirements
a	als	1.2.	Version and date of manual are checked to ensure
			that correct specification and procedures are
			identified
2. Ir	nterpret Manuals	2.1.	Relevant sections, chapters of
			specifications/manuals are located in relation to
			the work to be conducted
		2.2.	Information and procedure in the manual are
			interpreted in accordance with industry practices
3. A	apply information in	3.1.	Manual is interpreted according to job
m	nanual		requirements
		3.2.	Work steps are correctly identified in accordance
			with manufacturer's specification
		3.3.	Manual data are applied according to the given
			task
		3.4.	All correct sequencing and adjustments are
			interpreted in accordance with information
			contained on the manuals specification
4. S	tore Manual	4.1.	Manual or specification is stored appropriately to
			prevent damage, ready access and updating of
			information when required in accordance with
			information contained on the manual or
			specifications

In the context of this unit, the procedures, specifications and manuals of instruction may include the manufacturer's specification manual, a repair/ maintenance manual and periodic maintenance manual.

Information and procedure in the manual are interpreted in accordance with industry practices and manual data are applied according to the given task.

Tools, Equipment and machinery used in this unit may include

Nil

ASSESSMENT GUIDE

Forms of Assessment

Competency should be assessed through:

- Direct observation
- Questions/interview

Assessment of underpinning knowledge and practical skills may be combined

Assessment context

Competency assessment must be undertaken in accordance with assessment guidelines Assessment may be conducted in the workplace or a simulated environment

Critical Aspects (for assessment)

Assessment requires that the candidate:

- Identified and accessed specification/manuals as per job requirements
- Interpreted manuals in accordance with industry practices
- Applied information in manuals according to the given task
- Stored manuals in accordance with company requirements

Resources required for assessment

The following resources should be provided:

• All manuals/catalogues relative to construction sector

Underpinning Knowledge	Underpinning Skills
Types of manuals used in	Reading and comprehension skills
construction sector	required to identify and interpret
• Identification of symbols used in	construction manuals and
the manuals	specifications
• Identification of units of	 Accessing information and data
measurements and units of	
conversion	

UNIT TITLE	Perform Mensurations and Calculations				
DESCRIPTOR	This unit covers the knowledge, skills and attitudes n identifying and measuring				
	objects based on the required performance standards.				
CODE	CON06S2U01VI	LEVEL	2	CREDIT	3

ELEMENTS OF COMPETENCIES	PERFORM	ANCE CRITERIA
1. Select Measuring	1.1.	Object or component to be measured is
Instruments		identified, classified and interpreted according
		to the appropriate regular geometric shape
	1.2.	Measuring tools are selected/identified as per
		object to be measured or job requirements
	1.3.	Correct specifications are obtained from
		relevant sources
	1.4.	Appropriate measuring instruments are selected
		according to job requirements
	1.5.	Alternative measuring tools are used without
		sacrificing cost and quality of work
2. Carry ou	† 2.1.	Accurate measurements are obtained
measurements		according to job requirements
and calculations	2.2.	Alternative measuring tools are used without
		sacrificing cost and quality of work
	2.3.	Calculation needed to complete work tasks are
		performed using the four basic process of
		addition (+), subtraction (-), multiplication (x) and
		division (/) including but not limited to:
		trigonometric functions, algebraic computations
	2.4.	Calculations involving fractions, percentages
		and mixed numbers are used to complete
		workplace tasks
	2.5.	Numerical computation is self-checked and
		corrected for accuracy
	2.6.	Instruments are read to the limit of accuracy of
		the tool

2.7.	Systems	of	measurement	identified	and
	converte	d ac	cording to job re	equirements/I	SO
2.8.	Workpiec	es c	are measured	according t	o job
	requirem	ents			

Mensurations and calculations in this unit may include geometric shapes that includes but not limited to the following;

- Round
- Square
- Rectangular
- Conical
- Triangle
- Sphere

Tools, Equipment and machinery used in this unit may include

Tools and equipment may include but not limited to;

- Steel Tape Measure
- Triangle
- 45 x 90 degrees or 30 x 60 degrees triangle
- Steel Rule
- Combination Gauge
- Try Square
- Carpenters (Steel) Square
- Calculator

Materials needed

Writing papers, drawing papers, pieces of timber (varied sizes and species) and nails (with varied sizes.)

PREPARE CONSTRUCTION MATERIALS AND TOOLS

ASSESSMENT GUIDE

Forms of assessment

Competency should be assessed through:

- Actual demonstration
- Direct observation
- Written test/questioning related to underpinning knowledge

Assessment Context

Competency assessment may occur in workplace or any appropriate simulated environment Assessment shall be observed while task are being undertaken whether individually or in group Competency assessment must be undertaken in accordance with approved assessment guidelines

Critical Aspects (for assessment)

Assessment requires that the candidate:

- Selected and prepared appropriate measuring instruments in accordance with job requirements
- Performed measurements and calculations according to job requirements.

Resources required for assessment

The following resources should be provided:

- Workplace location
- Problems to solve
- Measuring instrument appropriate to carry out tasks
- Instructional materials relevant to the propose activity

Underpinning Knowledge	Underpinning Skills
Trade mathematics/ mensuration	Performing calculation by addition,

- Four fundamental operation
- Linear measurement
- Dimensions
- Unit conversion
- Ratio and proportion
- Trigonometric functions
- Algebraic equations

subtraction, multiplication and division; trigonometric functions and algebraic equations

- Visualizing objects and shapes
- Interpreting formulas for volume, areas, perimeters of plane and geometric figures
- Proper handling of measuring instruments

UNIT TITLE	Prepare Constru	uction Materials	and Tools		
DESCRIPTOR	This unit covers the knowledge, skills and attitudes on identifying,				
	Requesting and receiving construction materials and tools based on the				
	required performance standards.				
CODE	CON06S2U02VI	LEVEL	2	CREDIT	3

ELEMENTS OF COMPETENCIES	PERFORM	ANCE CRITERIA
Identify materials	1.1.	Materials are listed as per job requirements
	1.2.	Quantity and description of materials conform
		with the job requirements
	1.3.	Tools and accessories are identified according to
		job requirements
2. Requisition materials	2.1.	Materials and tools needed are requested
		according to the list prepared
	2.2.	Request is done as per company standard
		operating procedures (SOP)
	2.3.	Substitute materials and tools are provided without
		sacrificing cost and quality of work
3. Receive and inspect	3.1.	Materials and tools issued are inspected as per
materials		quantity and specification
	3.2.	Tools, accessories and materials are checked for
		damages according to enterprise procedures
	3.3.	Materials and tools are set aside to appropriate
		location nearest to the workplace

This may include specification on the brand name of materials, size, capacity and kind of application.

It also includes the use of job order forms, requisition slip and borrower slip forms.

Tools, Equipment and machinery used in this unit may include

Tools and equipment may include carpentry hand tools, power tools, masonry tools, plumbing and electrical tools.

Materials may include

- Materials needed may include timbers, plywood, hardboards, and hardware like nails, bolts, concreting materials, plumbing and electrical materials.
- It includes brand name, size, capacity and kind of the materials.

ASSESSMENT GUIDE

Forms of Assessment

Competency should be assessed through:

- Direct Observation.
- Interview/questioning related to the topics in underpinning knowledge.

Assessment Context

Competency assessment may occur in workplace or any appropriate simulated environment Competency assessment must be undertaken in accordance with assessment guidelines.

Critical Aspects of Assessment

Assessment requires that the candidate:

- Selected and used appropriate processes, tools and equipment to carry out task
- Identified functional and non-functional tools and equipment
- Checked, lubricated and calibrated tools, equipment and instruments according to manufacturer's specifications
- Replaced defective tools, equipment and their accessories
- Observed and applied safe handling of tools and equipment and safety work practices
- Prepared and submitted inventory report, where applicable
- Maintained workplace in accordance with OHS regulations
- Stored tools and equipment safely in appropriate locations and in accordance with company practices

Resources Required for Assessment

The following resources should be provided:

- Workplace
- Maintenance schedule
- Maintenance materials, tools and equipment relevant to the proposed activity

Underpinning	g Knowledge	Underpinning Skills
• SAFETY	PRACTICES	Preparing maintenance materials, tools
>	Use of PPE	and equipment
>	Handling of tools and	Proper handling of tools and equipment
	equipment	Performing preventive maintenance
>	Good housekeeping	Following instructions
MATERI	ALS, TOOLS AND EQUIPMENT	
>	Types and uses of lubricants	
>	Types and uses of cleaning	
	materials	
>	Types and uses of measuring	
	instruments and equipment	
PREVEN	NTIVE MAINTENANCE	
>	Methods and techniques	
>	Procedures	

UNIT TITLE	Maintain Tools and Equipment				
DESCRIPTOR	This unit covers	the knowledge	e, skills and atti	tudes on checl	king condition,
	performing preventive maintenance and storing of tools and equipment				
	based on the required performance standards.				
CODE	CON06S2U03VI	LEVEL	2	CREDIT	3

ELEMENTS OF COMPETENCIES	PERFORMA	ANCE CRITERIA
1. Check condition of	1.1.	Materials, tools and equipment are identified
tools and equipment		according to classification and job requirements
	1.2.	Non-functional tools and equipment are
		segregated and labelled according to
		classification
	1.3.	Safety of tools and equipment are observed in
		accordance with manufacturer's instructions
	1.4.	Condition of PPE are checked in accordance with
		manufacturer's instructions
2. Perform Basic	2.1.	Appropriate lubricants are identified according to
Preventive		types of equipment
Maintenance	2.2.	Tools and equipment are lubricated according to
		preventive maintenance schedule or
		manufacturer's specifications
	2.3.	Measuring instruments are checked and calibrated
		in accordance with manufacturer's instructions
	2.4.	Tools are cleaned and lubricated according to
		standard procedures
	2.5.	Defective instruments, equipment and accessories
		are inspected and replaced according to
		manufacturer's specifications
	2.6.	Tools are inspected, repaired and replaced after
		use
	2.7.	Work place is cleaned and kept in safe state in line
		with OHS regulations

3. Store	Tools	and	3.1.	Inventory of tools, instruments and equipment are
Equipm	ent			conducted and recorded as per company
				practices.
			3.2.	Tools and equipment are stored safely in
				appropriate locations in accordance with
				manufacturer's specifications or company
				procedures

In the context of this standard maintenance of tools and equipment includes the use of cleaning materials, lubricants, rust remover, and spare parts needed in the maintenance of carpentry hand tools and equipment, including safety equipment like goggles. Gloves and overalls.

Tools, Equipment and machinery used in this unit may include

Tools and equipment may include carpentry tools like cutting tools, (saws) Boring tools (auger bits, brace, hand drills, drill bits and measuring instruments (steel tape measure, try square, spirit level, plumb bob.) and power tools (portable saw and portable power drills.)

Materials may include

Materials may include Lubricants, Rust remover, Rugs and Spare Parts for Portable Power tools.

ASSESSMENT GUIDE

Forms of Assessment

Competency should be assessed through:

- Direct observation
- Written test/questioning related to underpinning knowledge

Assessment Context

Competency assessment may occur in workplace or any appropriate simulated environment Competency assessment must be undertaken in accordance with assessment guidelines

Critical Aspects (for assessment)

Assessment requires that the candidate:

- Selected and used appropriate processes, tools and equipment to carry out task
- Identified functional and non-functional tools and equipment
- Checked, lubricated and calibrated tools, equipment and instruments according to manufacturer's specifications
- Replaced defective tools, equipment and their accessories
- Observed and applied safe handling of tools and equipment and safety work practices
- Prepared submitted inventory report, where applicable
- Maintained workplace in accordance with OHSA regulations
- Stored tools and equipment safely in appropriate locations and in accordance with company practices

Resources Required for Assessment

The following resources should be provided:

- Workplace
- Maintenance schedule
- Maintenance materials, tools and equipment relevant to the proposed activity/task

Underpinning Knowledge	Underpinning Skills
SAFETY PRACTICES	 Preparing maintenance materials,
➤ Use of PPE	tools and equipment
> Handling of tools and	 Proper handling of tools and
equipment	equipment
Good housekeeping	Performing preventive maintenance

- MATERIALS, TOOLS AND EQUIPMENT
 - > Types and uses of lubricants
 - > Types and uses of cleaning materials
 - > Types and uses of measuring instruments and equipment
- PREVENTIVE MAINTENANCE
 - Methods and techniques
 - Procedures

• Following instructions

UNIT TITLE	Prepare Stake-Out Building Lines				
DESCRIPTOR	This unit covers the knowledge, skills and attitude for preparing stake –out				
	materials and fixing stake-out building lines.				
CODE	CON06S2U04VI	LEVEL	2	CREDIT	7

ELEMENTS OF COMPETENCIES	PERFORM	ANCE CRITERIA
1. Prepare Materials for	1.1.	Appropriate Personal Protective Equipment (PPE) is
stake-out building		selected and used according to job requirements
lines		and OSHC standards
	1.2.	Related plans and details are correctly interpreted
		according to job requirements
	1.3.	Materials, hand tools and equipment is prepared
		consistent with job requirements
	1.4.	Materials are properly staged and freed from
		defects
	1.5.	Unexpected situations are responded to in line with
		company rules and regulations
	1.6.	Housekeeping is performed according to safety
		regulations
2. Set Batterboards	2.1.	Batterboards are set away from the building line
		excavation
	2.2.	Batterboards are properly secured with tolerances
		for dimensions at \pm 5 mm, and levelness of \pm 3 mm
	2.3.	Unexpected situations are responded to in line with
		company rules and regulations
	2.4.	Housekeeping is performed according to safety
		regulations
3. Fix Stake-Out Building	3.1.	Stake-out building lines are properly secured for
Lines		reference in excavating building foundation
	3.2.	Marking lines are squared and plumbed from the
		batterboard lines with tolerance of $\pm\ 3$ mm on all
		measurement, levelness, squareness and rigid
	3.3.	Worksite is cleaned and kept in safe state

	according to OSHC regulations
3.4.	Daily work report is accomplished in accordance
	with company rules and regulations.

- Personal Protective Equipment must always be worn while performing the job
- Plans and details of the job to be performed are prepared indicating the exact location, dimensions and elevation of the work to be done. Symbols and abbreviations clearly defined and interpreted
- Quality and Quantity of materials are clearly indicated

Tools, Equipment and machinery used in this unit may include

Range of carpentry hand tools and equipment may include Hand saws, Claw Hammer, Plumb Bob, Pull-push rule. Steel tape measure, Try Square, Chalk and Line, PickMatch/Pickmatok, Level Hose. Sledge Hammer, Framing/Carpenters Square.

Materials may include:

Materials may include pieces of lumber, 2"x 2" and 2"x 3" with various lengths, Common Nails, G.I. Wires, Fishing Line or Nylon Cord, ½ inch thick plywood of assorted sizes.

ASSESSMENT GUIDE

Forms of Assessment

Competency must be assessed through:

- Direct observation/practical demonstration of application to tasks
- Questioning related to underpinning knowledge

Assessment Context

Competency may be assessed in the work place or in a simulated work place setting

Assessment shall be done while tasks are undertaken individually under limited supervision

Critical aspects (for assessment)

Competency assessment requires evidence that the candidate:

- Interpreted related plans and details according to job requirements
- Selected and prepared materials, hand tools and equipment, and PPE according to specifications and job requirements
- Set and aligned dimension of work accurately according to job requirements
- Applied organizational quality procedures and processes in staking-out building lines
- Complied with safety regulations for worksite operation
- Identified faults and problems and reported to immediate supervisor/foreman for necessary action

Resources required for assessment

The following resources must be provided:

- Work place location
- Plans and details relevant to the task
- Hand tools and equipment appropriate for preparing building lines
- Materials relevant to the proposed activity
- Appropriate PPE

Underpinning Knowledge	Underpinning Skills
Types and uses of PPE	Using PPE
Mensuration	Interpreting inter-related plans and
• Related plans and details	details
interpretation	Preparing stake materials
Materials, hand tools and	 Cutting/setting batter boards
equipment uses and specification.	Aligning stake- out of building lines and
Knowledge of building layouts	excavation
Company rules and regulations	Metering tape reading
	• Following company rules and
	regulations

UNIT TITLE	Fabricate Formworks				
DESCRIPTOR	This unit covers the knowledge, skills and attitudes in fabricating formworks. It				
	includes preparing materials, lay outing, fabricating and assembling formworks.				
CODE	CON06S2U05VI	LEVEL	2	CREDIT	8

ELEMEN	ELEMENTS OF COMPETENCIES		ANCE CRITERIA
1.	Prepare materials for	1.1.	Appropriate PPE is selected and used according to
	fabricating		job requirements and OSHC specifications
	formworks	1.2.	Related plans and details are interpreted
			according to job requirements
		1.3.	Materials, hand and power tools and equipment
			are selected and prepared consistent with job
			requirements
		1.4.	Materials are re-checked and properly staged
			according to job requirements otherwise defective
			materials or not in specifications are reported to
			immediate superior
		1.5.	Unexpected situations are responded to in line with
			company rules and regulations
		1.6.	Housekeeping is performed according to safety
			regulations
2.	Lay-out dimension of	2.1.	Form sheating and stiffeners are measured and
	form sheating and		marked according to job specifications
	stiffeners	2.2.	Form sheating and stiffeners are laid out and cut
			with tolerances of ±3 mm for all measurements and
			squareness
		2.3.	Form sheating and stiffeners for column, beam,
			wall, slab and stairs are consistent with standard
			spacing for studs or nailer with tolerance of + 10
			mm. O.C
		2.4.	Unexpected situations are responded to in line with
			company rules and regulations
		2.5.	Housekeeping is performed according to safety

				regulations
3.	Assemble	Form	3.1.	Materials and/or fabricated form sheating and
	Panels			stiffeners are correctly positioned for assembly
			3.2.	Assembled form panels are checked for
				squareness, levelness and alignment to specified
				tolerance
			3.3.	Temporary fixing and/or permanent assembly
				techniques are applied to hold form panels
				together as per job requirements
			3.4.	Assembled form panels are checked for
				compliance with job requirements
			3.5.	Unexpected situations are responded to in line with
				company rules and regulations
			3.6.	Clean up worksite according to safety regulations
				and OSHC specifications
			3.7.	Daily work report is accomplished in accordance
				with company rules and regulations

In the context of this unit;

- Plans and details are prepared indicating exact location, dimensions, elevations with all symbols and abbreviations properly defined and explained
- The plans and details are interpreted according to job requirements; materials, hand tools and power tools are properly selected and used correctly
- Form sheathing and stiffeners are measured and cut to required dimensions, assembled and correctly positioned
- Assembled panels are checked for levelness, alignment and overall compliance to job requirements

Risk may include; Injury to personnel/workers and damage to materials.

Tools, Equipment and machinery used in this unit may include

Tools and equipment in this unit may include but not limited to;

Portable Power tools which includes; circular saw, electric drill, Jig saw and table –cut-off saw. Hand tools which includes; Claw Hammer, Pull-push rule, zigzag rule, steel square, plumb bob, Level hose, Spirit Level, Adjustable wrench, Try square, marking gauge, Crow Bar, chalk line, pencil and chisel.

Materials may include;

Plywood sheets- ¼ "thick and ½ "thick. Pieces of timber, 2 "x 2" and @" x 3" with various lengths in feet, Steel form, pipe, plate

ASSESSMENT GUIDE

Forms of Assessment

Competency must be assessed through:

- Direct observation of application to tasks
- Questions related to underpinning knowledge
- Demonstration

Assessment Context

Competency may be assessed in the work place or in a simulated work place setting

Assessment shall be done while tasks are undertaken individually under limited supervision

Critical Aspects (for assessment)

Competency assessment requires evidence that the candidate:

- Interpreted related plans and details
- Selected and prepared materials, power and hand tools, equipment and PPE consistent with job requirements
- Used safe and effective power and hand tools
- Laid out and cut form sheating and stiffeners according to specified tolerances
- Assembled form panels are checked for compliance with the job requirements and specified tolerances
- Applied organizational quality procedures and processes
- Completed work without damage to materials or injury to personnel

Resources required for Assessment

The following resources must be provided:

- Work place location
- Materials, power and hand tools and equipment appropriate for formworks fabrication
- Plans and details and specifications relevant to the task
- Appropriate PPE

Underpinning Knowledge	Underpinning Skills
Mensuration	Using PPE
• Related plans and details	 Applying mensuration
interpretation	 Interpreting related plans and details
Materials, power and hand tools	Following fabrication procedures
and equipment uses and	Following safe and effective use of
specification	power and hand tools
Knowledge of formworks fabrication	Using materials economically
procedures	Communicating effectively
Economic use of material	• Following company rules and
Safe and effective use of power and	regulations
hand tools	
Company rules and regulations	

UNIT TITLE	Install Formwork Components				
DESCRIPTOR	This unit covers the knowledge skills and attitudes in installing/stripping				
	formwork components for concrete work. It includes preparing materials, lay-				
	outing /assembling scaffolds and braces and removing of shoring.				
CODE	CON06S2U06VI L	EVEL	2	CREDIT	8

ELEMENTS OF COMPETENCIES	PERFORM	ANCE CRITERIA
1. Prepare materials ,	1.1.	Appropriate PPE is selected and used according
tools and equipment		to job requirements and OSHC specifications
for installing formworks	1.2.	Related plans and details are correctly
		interpreted according to job requirements
	1.3.	Formworks components/materials, power and
		hand tools and equipment are selected and
		prepared consistent with job requirements
	1.4.	Materials are re-checked and properly staged
		according to job requirements otherwise
		damaged materials are reported to immediate
		superior
	1.5.	Unexpected situations are responded to in line
		with company rules and regulations
	1.6.	Housekeeping is performed according to safety
		regulations
2. Layout-out Assemble	2.1.	Appropriate PPE is selected and used according
scaffolds and braces		to job requirements and OSHC specifications
	2.2.	Work area is cleared for safe lay-outing and
		assembling of scaffolds and braces
	2.3.	Scaffolds and braces are laid-out and
		assembled with tolerance of + 3mm for all
		measurements and squareness
	2.4.	Connectors, braces, locks and screws are
		properly secured according to job requirements
	2.5.	Unexpected situations are responded to in line
		with company rules and regulations

	2.6.	Housekeeping is performed according to safety
		regulations
3. Set/fix form panels of	3.1.	Appropriate PPE is selected and used according
building components		to job requirements and OHSA specifications
	3.2.	Formworks components are laid-out with
		tolerance of \pm 3 mm for measurement,
		alignment, squareness, levelness, levelness and
		with form oil
	3.3.	Form panels are set/fixed for components with
		tolerance to reference structure of + 3mm
	3.4.	Connectors, braces, locks and screws are
		properly secured according to job requirements
	3.5.	Unexpected situations are responded to in line
		with company rules and regulations
	3.6.	Daily report is accomplished according to
		company rules and regulations
	3.7.	Housekeeping is performed according to safety
		regulations.

- In the context of this unit, formworks and components are laid-out, connectors, braces, locks and screws are properly secured according to job requirements.
- Scaffolds and braces are laid out and assembled according to job requirements.

Tools, Equipment and machinery used in this unit may include

Tools, Equipment and machinery may include but not limited to;

Hand saw, law hammer, Spanners, measuring tools i.e. pull-push rule, steel tape measure, Chalk line, Plumb bob, level hose, Fishing line, Spirit level, Crow bar, Try square.

Materials may include:

Materials may include pieces of lumber, 2" x 2", and 2" x3" of varied lengths Plywood, Steel Channel, Scaffolds, Shoring, nails and bolts.

ASSESSMENT GUIDE

Forms of Assessment

Competency must be assessed through:

- Direct observation of application to tasks
- Questions related to underpinning knowledge
- Demonstration

Assessment Context

Competency may be assessed in the work place or in a simulated work place setting.

Assessment shall be done while tasks are undertaken individually under limited supervision.

Critical aspects (for assessment)

Competency assessment requires evidence that the candidate:

- Interpreted related plans and details according to job requirements
- Selected and prepared materials, power and hand tools, equipment and PPE are consistent with job requirements
- Laid-out/assembled scaffolds/braces and form components/panels according to job requirements and specified tolerances
- Complied with safety regulations for worksite operations
- Followed safe and effective operational use of power and hand tools and equipment
- Communicated interactively with others to ensure safe and effective workplace operations
- Completed work without injury to personnel or damage to equipment

Resources required for assessment

The following resources must be provided:

- Work place location
- Hand and power tools and equipment appropriate for installation of formwork components
- Materials relevant to the proposed activity
- Plans and details relevant to the task
- Appropriate PPE

Underpinning Knowledge	Underpinning Skills
	Using PPE
Knowledge of PPE	 Applying mensuration
 mensuration 	 Interpreting plan and details
 Interpreting plan and details 	 Preparing materials, power and hand
Knowledge on materials, power and	tools and equipment
hand tools and equipment	 Following assembling and fixing
knowledge assembling and fixing	procedures
procedures	 Following safe and effective use of
safe and effective use of power and	power and hand tools
hand tools	 Using materials economically
company rules and regulations	Communicating effectively
	Following company rules and regulations

UNIT TITLE	Strip Formworks Components				
DESCRIPTOR	This unit covers the knowledge, skills and attitudes in stripping formwork				
	components and accessories for concrete work. It includes preparing tools,				
	equipment and staging of materials, shoring and re-shoring operations.				
CODE	CON06S2U07VI	level	2	Credit	6

ELEMENTS OF COMPETENCIES	PERFORM	ANCE CRITERIA
Prepare staging area,	1.1.	Work instruction is secured from immediate superior
tools and equipment		according to company rules and regulations
	1.2.	Appropriate PPE is selected and used according to
		job requirements and OSHC specifications
	1.3.	Formwork components and accessories staging
		area is identified and prepared based on job requirements
	1.4.	Formwork components power, hand tools and
		equipment are selected and prepared consistent
		with job requirements
	1.5.	Unexpected situations are responded to in line with
		company rules and regulations
	1.6.	Housekeeping is performed according to safety
		regulations
2. Strip formworks of	2.1.	Formwork components and accessories are
building components		removed carefully, safely and sequentially
	2.2.	Formwork components and accessories are sorted,
		arranged and properly staged according to
		company rules and regulations/manufacturer's
		recommendations
	2.3.	Formwork components and accessories are
		cleaned, oiled and stored according to company
		rules and regulations/manufacturer's
		recommendations
	2.4.	Formwork components and accessories, which are
		beyond repair, are discarded otherwise repaired in

		accordance with company rules and regulations
	2.5.	Unexpected situations are responded to in line with
		company rules and regulations
	2.6.	Housekeeping is performed according to safety
		regulations
3. Shore or/and re-shore	3.1.	Appropriate PPE is selected and used according to
and removal		job requirements and OHSA specifications
	3.2.	Formworks components are shored and re-shored
		in accordance with stripping procedures
	3.3.	Shores are removed in accordance with standard
		dismantling procedures
	3.4.	Shores, tools and equipment are cleaned,
		maintained and stored properly according to
		company rules and regulations
	3.5.	Unexpected situations are responded to in line with
		company rules and regulations
	3.6.	Daily report is accomplished according to
		company rules and regulations
	3.7.	Housekeeping is performed according to safety
		regulations

In the context of this unit;

- Formworks include form panels and scaffolds. In this unit, formwork components and accessories are removed carefully, safely and sequentially.
- Formwork components are shored and re-shored in accordance with stripping procedures; shores, tools and equipment are cleaned, maintained and stored properly.
- Housekeeping is performed to safety regulations.

Tools, Equipment and machinery used in this unit may include

Tooling and equipment may include but are not limited to;

Claw hammers, crow bar, tool holster, Spanners, Brooms, Gloves, Safety shoes, Safety hat, dust mask and overalls/working clothes.

Materials may include

Materials may include cleaning materials, rust remover and lubricants.

ASSESSMENT GUIDE

Forms of assessment

Competency must be assessed through:

- Direct observation of application to tasks
- Questions related to underpinning knowledge
- Demonstration

Assessment context

Competency may be assessed in the work place or in a simulated work place setting

Assessment shall be done while tasks are undertaken individually under limited supervision

Critical Aspects (for assessment)

Competency assessment requires evidence that the candidate:

- Followed work instructions
- Selected and prepared power and hand tools, equipment and PPE are consistent with job requirements
- Performed stripping, shoring and removal of shoring procedures
- Complied with safety regulations for worksite operations
- Followed safe and effective operational use of power and hand tools and equipment
- Communicated interactively with others to ensure safe and effective workplace operations
- Completed work without injury to personnel or damage to materials

Resources required for assessment

The following resources must be provided;

Work place location

- Hand and power tools and equipment appropriate for stripping of formwork components
- Appropriate PPE

Underpinning Knowledge	Underpinning Skills
Types and uses of PPE	Using PPE
Formwork components power and	 Interpreting instructions
hand tools and equipment use and	 Following safety rules and regulations
specification	 Preparing formwork components
Interpretation of instruction,	Following stripping, shoring and removal
Safety rules and regulations	of shoring procedures
Safe and effective use of power and	Following safe and effective use of
hand tools	power and hand tools
Proper storing and maintenance of	 Following proper storing and
formwork components	maintenance of formwork components
Knowledge of stripping, shoring and	and accessories
removal of shoring procedures	Communicating effectively
Company rules and regulations	• Following company rules and
	regulations

UNIT TITLE	Install Framing Works				
DESCRIPTOR	This unit covers the knowledge, skills and attitudes in installing framing works. It				
	includes preparing materials, lay-outing-erecting and assembling supports.				
CODE	CON06S2U08VI	LEVEL	2	CREDIT	12

ELEMENTS OF COMPETENCIES	PERFORM	ANCE CRITERIA
Prepare Materials for	1.1.	Appropriate PPE is selected and used according
Framing		to job requirements OSHC specifications
	1.2.	Related plans and details are correctly interpreted
		according to job requirements
	1.3.	Materials, power and hand tools and equipment
		are selected and prepared consistent with job
		requirements
	1.4.	Materials are re-checked and properly staged
		according to job requirements
	1.5.	Defective materials are reported to immediate
		supervisor following standard operating procedures
	1.6.	Unexpected situations are dealt with according to
		company rules and regulations
	1.7.	Housekeeping is performed according to safety
		regulations
2. Lay-out/erect and	2.1.	Appropriate PPE is used according to job
assemble post, girts		requirements and OSHC specifications
and supports	2.2.	Posts and girts are laid-out according to working
		drawings and specifications with tolerance of \pm
		3mm on all measurements, plumbness and
		levelness
	2.3.	Post, girts and support are erected/assembled
		based on plans and specifications
	2.4.	Unexpected situations are dealt with according to
		company rules and regulations
	2.5.	Housekeeping is performed according to safety
		regulations

3. Layout Out/Install	3.1.	Appropriate PPE is used according to job
Floor joist		requirements and safety regulations
	3.2.	Floor joists are set out, cut and fixed, and laterally
		supported in accordance with working drawings
		and specifications
	3.3.	Floor joists are trimmed for floor openings and fixed
		with fastenings according to working drawings and
		specifications
	3.4.	Floor joists are laid-out/installed with tolerance of \pm
		3mm on all measurements and levelness
	3.5.	Unexpected situations are dealt with according to
		company rules and regulations
	3.6.	Housekeeping is performed according to safety
		regulations
4. Layout/install wall	4.1.	Appropriate PPE is used according to job
studs		requirements and safety regulations
	4.2.	Wall studs are identified and installed based on
		working drawings and specifications with tolerance
		of ± 3mm on all measurements, plumbness,
		levelness and squareness
	4.3.	Unexpected situations are dealt with according to
		company rules and regulations
	4.4.	Housekeeping is performed according to safety
		regulations
5. Lay-out	5.1.	Appropriate PPE is used according to job
fabricate/Install Roof		requirements and safety regulations
Frames	5.2.	Types of roofs and other components are
		fabricated, laid out and installed according to
		working drawings and specifications with tolerance
		of ± 3mm maximum on all dimensions, plumbness,
		levelness and squareness
	5.3.	Roof components are installed according to
		working drawings and specifications
	5.4.	Unexpected situations are dealt with according to

		company rules and regulations
	5.5.	Housekeeping is performed according to safety
		regulations
6. Layout/Install Ceiling	6.1.	Appropriate PPE is used according to job
Joist/Frames		requirements and safety regulations
	6.2.	Ceiling joists/frames are laid out/installed
		according to working drawings and specifications
		with $\pm\ 3$ mm tolerance on all dimensions, levelness
		and squareness
	6.3.	Unexpected situations are dealt with according to
		company rules and regulations
	6.4.	Daily report is accomplished according to
		company rules and regulations
	6.5.	Housekeeping is performed according to safety
		regulations

In the context of this skill standard, the unit covers the preparation of framing works, Layout out and install floor joist, wall studs, roof frames, ceiling joist, including assembly of girts and supports

It also deals on the performance of good housekeeping according to safety regulations and accomplishe daily reports and accomplishment reports.

Tools, Equipment and machinery used in this unit may include

This unit will include the use of the following tools and equipment, but not limited to;

Carpentry Hand tools like Hand Saws, Hammer, Plumb bob, level hose, Spirit level, steel
tape measure, pull-push rile, Pencil, Framing Square, Crow bar, Chisel, and portable
power tools like Electric Saw, Electric Drill, Electric Planer, Jig saw, Sanders.

Materials may include:

Pieces of lumber, (wet and kiln dried lumber) of varied sizes and species, nails with varied sizes, Bolts and nuts, Hanger Ceiling (expansion bolts) and metal brackets.

ASSESSMENT GUIDE

Forms of assessment

Competency must be assessed through:

- Direct observation of application to tasks
- Questions related to underpinning knowledge

Assessment Context

Competency may be assessed in the work place or in a simulated work place setting.

Critical Aspects (for assessment)

Competency assessment requires evidence that the candidate:

- Interpreted related plans and details according to job requirements
- Selected and prepared materials, hand and power tools, equipment and PPE are consistent with job requirements
- Complied safety regulations for worksite operations
- Followed safe and effective operational use of tools and equipment
- Completed work operations without injury to personnel and damage to materials
- Communicated interactively with others to

Resources Required for Assessment

The following resources must be provided:

- Work place location
- Power and hand tools and equipment appropriate to installation of frames
- Materials relevant to the proposed activity
- Drawings and specifications relevant to the task
- Appropriate PPE

Underpinning Knowledge	Underpinning Skills		
Types and uses of PPE	Using PPE		

- Mensuration
- Working drawings and specifications interpretation
- Materials, power and hand tools, equipment use and specification
- Principles of framing
- Procedures for installing framing works
- Safe and effective use of power and hand tools
- Economic use of material
- Staging and storing procedure of materials
- Company rules and regulations

- Applying mensuration
- Interpreting working drawings and Using materials economically.
- Following procedures for installing framing works
- Following safe and effective use of power and hand tools
- Following staging and storing procedure
- Following company rules and regulations