

THE REPUBLIC OF UGANDA Ministry of Education and Sports

Directorate of Industrial Training



Qualification Level: 1

Occupational Cluster: Technology and Design

September 2020

Developed by:

Directorate of Industrial Training Qualifications Standards Department <u>Funded by:</u> Government of Uganda



Assessment and Training Package

For a

CARPENTER

Qualification Level: 1

Occupational Cluster: Technology and Design

Directorate of Industrial Training Plot 97/99 Jinja Road/ Corner 3rd Street, P.O Box 20050, Lugogo, Kampala, Uganda Tel: +256 414 253 704; +256 312 279 344 E-mail: <u>uvqf.dit@gmail.com</u> Web: www.dituganda.org

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- (a) To identify the needs of the labour market for occupational competencies that fall under the UVQF.
- (b) To regulate apprenticeship schemes.
- (c) To foster and promote entrepreneurial values and skills, as an integral part of the UVQF.
- (d) To secure adequate and sustainable financing for the efficient operations of the Directorate.
- (e) To accredit training institutions or companies as assessment centres.
- (f) To determine fees payable under the Act.
- (g) To develop, apply, expand and improve the purposeful application of Uganda vocational qualifications defined in the UVQF.
- (h) To assess and award Uganda Vocational Qualifications.
- (i) To promote on-the-job training in industry for apprenticeship, traineeship and indenture training and for other training such as further skills training and upgrading.
- (j) To prescribe the procedure for the making of training schemes.

Further to the above provisions, there is an established Uganda Vocational Qualifications Framework (UVQF), under part V of the BTVET Act, 2008. It is stated that:

The purpose of the UVQF is to;

- (a) Define occupational standards in the world of work.
- (b) Define assessment standards.
- (c) Award vocational qualifications of learners who meet the set standards of different studies.
- (d) Provide guidelines for modular training.

The UVQF shall follow principles of Competence Based Education and Training (CBET) which include:

- (a) Flexible training or learning modules.
- (b) Positive assessment and certification.
- (c) Assessment of prior learning.
- (d) Recognition of formal and non-formal training.
- (e) Self-paced or individual learning.
- (f) Work place learning.

For award and recognition of certificates, the BTVET Act, 2008 provides that:

- (1) The Directorate and other examination boards established under the Act shall award certificates and diplomas for Business, Technical or Vocational Education and Training under the UVQF.
- (2) The Certificates and Diplomas to be awarded shall be in the form prescribed by the Minister on the recommendation of the Industrial Training Council.
- (3) The Certificates and Diplomas awarded under the Act shall be recognised in the Uganda education system and by the labour market.

Under the TVET Implementation Standards 2020, the proposed new mandate of the Directorate of Industrial Training shall be restricted to promoting the highest standards in the quality and efficiency of industrial training in the country and ensuring an adequate supply of properly trained manpower at all levels in the industry and the world of work.

The functions shall include:

- (a) Regulating Industrial Training and Trainers.
- (b) Developing Industrial Training Curricula.
- (c) Harmonising Curricula and Certificates of competence.
- (d) Assessing Industrial Training.
- (e) Development of Occupational Standards and Assessment and Training Packages (ATPs) for Trade Testing for the industry and world of work.
- (f) Awarding certificates in that respect.

At operational level in the Directorate, the Qualification Standards Department performs development tasks related to concepts, procedures and instruments for establishment of the UVQF in close collaboration with both public and private stakeholders in vocational training.

In particular, the Department organises and coordinates the development of Assessment and Training Packages for use in competence-based vocational training as well as standards-based assessment and certification.

The Directorate has therefore produced this Assessment and Training Package for use in implementing Competence-Based Education and Training mechanisms.

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Word from Permanent Secretary

The Kajubi Report (1989) and the Uganda Government White Paper on Education Review (1992) emphasised that the Uganda Secondary School Education should be vocationalised.

The World Bank Report on education in Uganda 2007 observed that although Uganda was experiencing steady economic growth on one hand, the secondary education curriculum was inadequately addressing the social and economic needs of the country on the other. The Report further noted that it is not the very top academic cadres that contribute most to the growth of the GDP but rather the competent middle level technicians that are flexible and technologically literate that the economy needs in the labour market at all levels.

Correspondingly, the NDP III 2020/21- 2024/5 highlights (i) low labour productivity (ii) high youth unemployment (38%) (iii) low transition rates from training to employment (35%) as some of the key challenges to Human Capital Development in Uganda.

In order to overcome these challenges, NDP III 2020/21- 2024/5, under objective 2 peaks the need to train the learners for the urgently needed skills and mainstream a dual education and training system. This paved way for the development of the lower secondary school vocational curriculum which supports both academic and vocational training.

The afore is in line with the Uganda Vision 2040. Under section 261, it emphasises that learners will be accorded opportunities to excel in the skills areas they are placed into. These will range from sports and cut to technical and vocational training. Hitherto, section 262 clearly states that the entire education system will be changed to emphasise practical skills, attitude and moral values.

Government of Uganda through the Ministry of Education and Sports rolled out the New Lower Secondary Curriculum in secondary schools countrywide during the first term of the academic year 2020. The overall goal of this curriculum is to produce graduates with employable skills and who are competitive in the labour market. It should be emphasised that vocational training will produce graduates who are employable. In the New curriculum, emphasis will be on equipping learners with employable skills and competencies. This will enable learners perform the requisite duties of the specified occupations. This is the reason why the lower secondary school vocational curriculum was tailored to the assessment requirements of the world of work.

Reading from the Curriculum Framework page 12, it is stated that the learners will be assessed by DIT. Upon assessment and certification, the graduates will be employable and competitive in the labour market. It's against this background that DIT, within its mandate vested in the BTVET Act, 2008 comes on board to take the lead in the development of the requisite Assessment and Training Packages (ATPs) for the various occupations that will be assessed under the Lower Secondary Curriculum.

The ATPs can be used by any training provider and/or those who wish to present themselves for Occupational Assessment and Certification.

Herewith, the Directorate of Industrial Training presents the Assessment and Training Package for training, assessment and certification of a **CARPENTER QUALIFICATION LEVEL 1.**

Finally, I thank all individuals, organisations and review partners who have contributed and/or participated in the review of this noble document.

Alex Kakooza Permanent secretary

Executive Summary

This Assessment and Training Package is a Competence-Based Education and Training (CBET) tool and consists of three major parts:

- 0.1 **PART I: The Occupational Profile (OP) of a CARPENTER.** This Occupational Profile which was reviewed by Carpenters practicing in the world of work mirrors the duties and tasks that Carpenters are expected to perform.
- 0.2 **PART II: Training Modules** in the form of guidelines to train Carpenters both on the job as well as in training centres (or combinations of both venues of learning). The Training Modules herein have been reviewed basing on the Occupational Profile and hence are directly relevant for employment.
- 0.3 **PART III: Assessment Instruments** in the form of performance (Practical) and written (theory) test items that can and should be used to assess whether a person complies with the requirements of employment as a CARPENTER. These assessment instruments were reviewed jointly by job practitioners (Carpenters) and instructors based on the occupational profile and training modules.
- 0.4 While the Occupational Profile (OP) contained in PART I of this document provides the information on <u>WHAT a person is expected to do</u> competently in the world of work, the test items, including performance criteria- of PART III qualify the <u>HOW and/or HOW WELL a person must do the job</u>.
- 0.5 The modular format of the curriculum (PART II) allows learners to acquire job specific skills and knowledge (i.e. competencies) module by module. A single module can be accomplished within a relatively short duration allowing flexibility for learners to move directly into an entry level job, go for further modules or advance to higher levels of training. Modular courses allow more learners to access the training system because training centres as well as companies can accommodate more learners in a given period of time.
- 0.6 In addition to improved access, equity and relevance of BTVET, the UVQF will also enable people who are convinced to have acquired competencies laid down in this ATP through prior training and on-the-job experience to access assessment and certification directly; be it on the basis of a single module, a group of modules or all modules pertaining to the occupation at once. This achievement will facilitate Recognition of Prior Learning (RPL).

- 0.7 The parts of this Assessment and Training Package were sequentially reviewed as follows:
 - i Part 1: Occupational Profile: *August 2020*
 - ii Part 2: Training Modules: August 2020
 - iii Part 3: Assessment Instruments (initial bank): August 2020

This ATP (or parts of it) may be periodically revised to match the dynamic trends in the occupation and hence issued in different versions.

DIT takes responsibility of any shortcomings that might be identified in this publication and welcomes suggestions for effectively addressing the inadequacies. The suggestion can be communicated to DIT through P.O. Box 20050, Kampala or through email uvaf.dit@gmail.com.

Patrick Byakatonda Ag Director

Acknowledgement

The Qualifications Standards Department of DIT wishes to sincerely acknowledge the valuable contributions to the review of this Assessment and Training Package by the following persons, Institutions and organisations:

- Members of the DIT Industrial Training Council
- The Director and staff of DIT
- Ministry of Education and Sports
- The practitioners from the world of work
- Teachers of carpentry from various Secondary Schools
- Carpenter Curriculum Specialists from NCDC
- Examination Specialists from UNEB
- The facilitators involved in guiding the review panel in their activities
- The Government of Uganda for financing the review of this ATP

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Abbreviations and Acronyms

A&C	Assessment and Certification	
ATP	Assessment and Training Packages	
CBET	Competency Based Education and Training	
DIT	Directorate of Industrial Training	
ITC	Industrial Training Council	
GoU	Government of Uganda	
LWA	Learning-Working Assignment	
MC	Modular Curriculum	
MoES	Ministry of Education and Sports	
OP	Occupational Profile	
PEX	Practical Exercise	
PTI	Performance (Practical) Test Item	
QS	Qualification Standards	
RPL	Recognition of Prior Learning	
TIB	Test Item Bank	
TVET	Technical, Vocational, Education and Training	
UVQ	Uganda Vocational Qualification	
UVQF	Uganda Vocational Qualifications Framework	
WTI	Written (Theory) Test Item	

Key Definitions

- Assessment Assessment is the means by which evidence is gathered and judged to decide if an individual has met the stipulated assessment standards or not. Testing is a form of formal assessment.
- **Certification** Certification is a formal procedure to issue a certificate (qualification) to an individual that has demonstrated during formal assessment that he/she is competent to perform the tasks specified in the occupational profile.
- **Competence** Integration of skills, knowledge, attitudes, attributes and expertise in doing /performing tasks in the world of work to a set standard.
- **Competency** (Occupational) competency is understood as the ability to perform tasks common to an occupation at an acceptable level.
- **CBET** Competence-based education and training means that programs:
 - 1. have content directly related to work
 - 2. focus is on 'doing something well'
 - 3. assessment is based upon industry work standards, and
 - 4. curricula are developed in modular form
- **Duty** A Duty describes a large area of work in performance terms. A duty serves as a title for a cluster of related Tasks (see also: TASK).

Learning-
WorkingLWA are simulated or real job situations / assignments that are
suitable for learning in a training environment (e.g. "small projects").Assignment
(LWA)In a working environment LWAs are real work situations
/assignments.

- **Modules** Modules are part(s) of a curriculum. Modules can be considered as "self-contained" partial qualifications which are described by learning outcomes or competencies and which can be assessed and certified individually.
- OccupationalAn Occupational Profile is an overview of the duties and tasks a jobProfile (OP)incumbent is expected to perform competently in employment.

Occupational Profiles developed by practitioners from the world of work enhance the relevance of training and learning to the requirements of the world of work. Occupational Profiles define what a person is supposed to do in performance terms. It also contains generic information regarding related knowledge and skills, attitudes/behavior, tools, materials and equipment required to perform as well as trends/ concerns in the occupation.

Occupational profiles are the reference points for developing modular curricular and assessment standards

- **Qualification** A qualification is a formal recognition for demonstrating competence, based on formal assessment against set standards. A qualification is provided to the individual in form of a certificate specifying the nature of the competence.
- TaskJob tasks represent the smallest unit of job activities with a
meaningful outcome. Tasks result in a product, service, or decision.
They represent an assignable unit of work and have a definite
beginning and ending point. Tasks can be observed and measured.
(Also see: Duty)

1.0 ATP-PART I

Occupational Profile for a Carpenter

- 1.1 The OCCUPATIONAL PROFILE (OP) for "Carpenter" below defines the **Duties** and **Tasks** a competent Carpenter is expected to perform in the world of work (on the job) in Uganda and the East African region today.
- 1.2 Since it reflects the skill requirements of work life, the Occupational Profile is the reference document for the subsequent development of training modules and assessment instruments (test items) which are directly relevant to employment in Ugandan and the East African businesses and industries.
- 1.3 To ensure that the Occupational Profile is relevant for employment in Uganda and East Africa, the DIT used the method of "occupational/job profiling.

This approach involves the brainstorming of a panel of 8 to 12 competent job practitioners guided by trained and experienced facilitators. During a two-day workshop the panelists defined the duties and tasks performed in employment, as well as the prerequisite skills, knowledge, attitudes, tools and equipment, and the future trends and concerns in the occupation/job.

1.4 The panelists, facilitators and coordinators who participated in reviewing this Occupational Profile are listed on the following page.

UVQF: Assessment and Training Package (ATP) for a CARPENTER QUALIFICATION LEVEL: 1 September 2020

Expert Panel

Nabbaya E Robert Jinja Vocational Training Institute

Baryakira Park St. Joseph Technical school, Kisubi

Mauko Levi Wafula Bishop's Senior School, Mukono

Ntege Deo Ivan Omulangira Ssemakokiro Investments

Olwa Tom Nakawa Vocational Technical Institute

Nyanzi Flavia NCDC

Asiimwe Edward Tarsis Mbarara High School

Erau Daniel Kibuli Secondary School

Mitsagharu Eric Mengo Senior School

Bekunda Livingstone Kako Senior Secondary School

Oketch Lewis Quinto Lugogo Vocational Training Institute

Co-ordinator Mukyala.E Ruth Directorate of Industrial Training

Facilitators Nakimuli Patra Directorate of Industrial Training

Asiimwe Janet Directorate of Industrial Training

Acayo Judith Directorate of Industrial Training

Funded by The Government of Uganda



THE REPUBLIC OF UGANDA Ministry of Education and Sports

Directorate of Industrial Training

Occupational Profile

For a

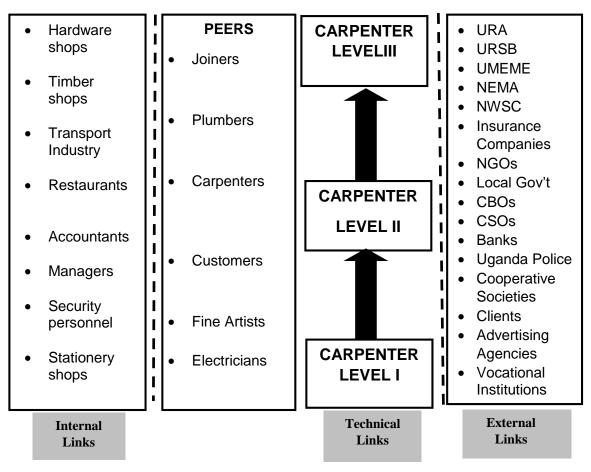
"Carpenter"

Reviewed by: Qualifications Standards Department of the Directorate of Industrial Training

Dates of workshop: 14th -18th September 2020

NOMENCLATURE FOR THE OCCUPATION OF CARPENTER

Definition: **A CARPENTER** is a person who interprets working drawings and constructs wooden structures for income generation.



JOB ORGANISATION CHART FOR A CARPENTER

- 1. **UVQ Level I Carpenter:** Is a person who is able to construct furniture, formwork and single roof structures for income generation.
- 2. **UVQ level II Carpenter:** Is a person who is able to preserve timber, construct shoring to bungalows, in-situ formwork and temporary timber structures for income generation.
- 3. **UVQ Level III Carpenter:** Is an artisan who can construct framed timber roofs and floors, gantry, centers and permanent timber houses for income generation.

Duties and Tasks

A. PLAN CARPENTRY BUSINESS	A1. Select site	A2. Carryout feasibility study	A3. Prepare budgets
	A4. Source funds	A5. Mobilise tools & equipment	A6. Prepare production plan
	A7. Legalise business		

B. STOCK CARPENTRY	B1. Identify materials	B2 . Purchase materials	B3. Transport materials
MATERIALS	B4. Arrange/sort materials	B5 . Record materials	B6. Grade materials

C. SEASON TIMBER	C1. Select timber	C2. Prepare seasoning yard	C3 Sort timber
	C4. Protect timber ends	C5 . Prepare stickers	C6. Stack timber
	C7. Test moisture content	C8. Cure materials	C9. Issue materials

D. PRESERVE TIMBER	D1. Prepare preservatives	D2. Prepare materials, tools and equipment	D3. Clean preserving site
	D4 . Dip timber	D5 . Spray timber	D6. Brush timber
	D7. Steep timber	D8 . Apply hot and cold treatment	D9 . Apply pressure impregnation
	D10. Perform diffusion		

E. CONSTRUCT TEMPORARY STRUCTURES	E1. Construct formwork	E2 . Erect site hoardings	E3. Erect shoring
	E4. Construct scaffolds	E5. Erect centres	E6. Construct timbering to excavations
	E7. Construct packaging boxes	E8. Construct pallets	E9. Construct gantry

F. CONSTRUCT PERMANENT STRUCTURES	F1. Interpret drawings	F2. Construct roofs	F3. Construct ceilings
	F4. Construct wooden floors	F5. Construct wooden stairs	F6. Fix door and wooden frames
	F7 . Hang door and window shutters	F8. Erect timber partitions	F9. Construct timber bridges
	F10. Erect timber houses	F11. Erect wooden fences	F12. Renovate wooden structures

G. MACHINES, TOOLS AND EQUIPMENT	G1. Isolate machines	G2 . Clean machines	G3. Sharpen cutting tools
MAINTAIN	G4. Replace parts	G5 . Lubricate moving parts	G6. Test run machines
	G7 . Develop service schedule.	G8. Fix safety accessories	

H. APPLY SAFETY AND HEALTH PRECAUTIONS	H1. Sensitise workers on prevailing health issues	H2. Wear protective personnel equipment	H3. Clean workplace
	H4. Display safety signs	H5. Carryout first aid	H6. Operate firefighting equipment
	H7. Inspect machine condition	H8. Store tools & equipment	H9. Secure machine guards
	H10. Observe personal hygiene	H11. Manage waste	

I. PERFORM ADMINISTRATIVE TASKS	I1. Conduct meetings	I2. Assign duties	I3 . Prepare reports
	I4. Attend to clients	I5. Market products	I6. Recruit workers
	I7 . Train workers	18 . Motivate workers	19 . Keep records
	I10. Apply legal procedures	I11. Counsel workers	I12. Pay wages and salaries
	I13. Network with clients	I14 Supervise workers	

Additional Information

Generic Knowledge and Skills

- 1. Use of machines, tools and equipment
- 2. Knowledge of materials
- 3. Measuring equipment
- 4. Planning skills
- 5. Communication skills
- 6. Knowledge of safety precautions
- 7. Time management

- 8. Planning skills
- 9. Seasoning of timber
- 10. Preserving timber
- 11. Construction materials and methods
- 12. Interpreting machine/equipment manuals
- 13. Craftsmanship

Tools, Equipment and Materials

- 1. Tape measure
- 2. Hand saw
- 3. Circular saw
- 4. Planers/planes
- 5. Braces / hand drills and bits
- 6. Files/rasps
- 7. F & G-Cramps
- 8. Hammer
- 9. Chisel
- 10. Hacksaw
- 11. Vice
- 12. Screw driver
- 13. Pliers
- 14. Spirit level
- 15. Spoke shave
- 16. Square
- 17. PPEs
- 18. Marking gauge
- 19. Pencil
- 20. Sliding bevel
- 21. Sharpening stone
- 22. Grinding stone
- 23. Band saw
- 24. Cramping belt

- 25. Adjustable protractor
- 26. Claw bar
- 27. Metre block and board
- 28. Sniper
- 29. Carpenters axe
- 30. Building line
- 31. Portable electric drill
- 32. Spray gun
- 33. Nails
- 34. Screws
- 35. Bolts
- 36. Water level
- 37. Jig saw
- 38. Rooter
- 39. Circular saw machine
- 40. Manufactured boards
- 41. Working bench
- 42. Bench vice
- 43. Bench hook
- 44. Bench hold fast
- 45. Sash cramps
- 46. Shooting board
- 47. Meter box
- 48. Corner cramps

 Future Trends & concerns 1. Computer Illiteracy 2. Negative attitude towards carpentry 3. Unethical issues in the carpentry industry 4. Lack of standards for carpentry work 5. Seminars for skills improvement 6. Upgrading new software that may come into existence 7. Flexibility to new modifications that may arise 8. Establishment of carpenters Association 9. rapid technological trends 10. Timber policy is not implemented 11. Poverty 	Attitudes/Traits/Behaviour Honest Smart Punctual Obedient Hard working Accurate Cooperative Safety conscious Responsible Environmental awareness Creative Self-driven Open minded Self-driven Organised Innovative Ability to work in a team Patriotic Trustworthy Hospitable Caring Advisable Disciplined Time conscious
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2.0 ATP-PART II

TRAINING MODULES FOR A CARPENTER

- 2.1 A curriculum is a "guide /plan for teaching and learning" which provides a guide to teachers, instructors and learners. In the envisaged system of competence-based or outcome-oriented education and training (CBET), Curricula are no longer the benchmark against which assessment is conducted. It is rather the Occupational Profile that provides the benchmark for Curriculum development as well as assessment.
- 2.2 This modular format of the curriculum allows learners of the occupation of CARPENTER to acquire job specific skills and knowledge (i.e. competencies) module by module. A single module can be accomplished within a relatively short duration allowing learners to move directly into an entry level job, do further modules and advance to higher levels of training. Modular courses allow more learners to access the training system because training centres, as well as companies can accommodate more learners in a given period of time.
- 2.3 The modules were developed jointly by both instructors and job practitioners. They were reviewed using the Occupational Profile as a reference point and taking into account the specifications of training and learning outcomes.
- 2.4 The modules contain "Learning-Working Assignments" (LWAs) and related "Practical Exercises" (PEXs) as key elements.

LWAs are simulated or real job situations/assignments that are suitable for learning in a training environment (e.g. "small projects"). In a working environment, LWAs are real work situations.

PEXs are therefore sub-sets of a LWA.

2.5 In principle, and following the philosophy of Competence-Based Education and Training (CBET), the modules can be used as a guide for learning in a training Centre, at the workplace; or a combination of both

WHO IS A CARPENTER QUALIFICATION LEVEL 1?

A **Carpenter Level 1** is a person who is able to construct furniture, formwork and single roofed structures for income generation.

Code	Module Title	Average Time	
		Contact hours	Weeks
UE/CA/M1.1	Construct Furniture	240	6
UE/CA/M1.2	Construct Temporary Structures	160	4
UE/CA/M1.3	Construct Single Wooden Roofs	240	6
UE/CA/M1.4	Season Timber and Maintain Timber Structures	240	6
UE/CA/M1.5	Maintain Carpentry Tools, Equipment and Machines	320	8
UE/CA/M1.6	Perform Entrepreneurial Tasks	120	3
Summary	6 Training Modules	1320 hours	33 weeks

TRAINING MODULES FOR A CARPENTER UVQ LEVEL 1

Note: Average duration is contact time but NOT calendar duration

It is assumed that:

- 1 day is equivalent to 8 hours of nominal learning and
- 1 month is equivalent to 160hours of nominal learning

Information given on the average duration of training should be understood as a guideline. Quick learners may need less time than indicated or vice versa.

At completion of a module, the learner should be able to satisfactorily perform the included Learning Working Assignments, their Practical exercises and attached theoretical instructions, as the minimum exposure.

Prior to summative assessment by recognised agencies, the users of these Modules Guides are encouraged to carefully consider continuous assessment using samples of (or similar) performance (practical) and written test items available in part 3 of this ATP.

Code	UE/CA/M1.1		
Module title	M1.1: Construct Furniture		
Related Qualification	Part of Uganda Vocational Qualification (Carpenter UVQ1)		
Qualification Level	1		
Module purpose	At the end of this module, a trainee shall be to make furniture.		
Learning-Working Assignments (LWAs)	 LWA 1/1: Make a Bench LWA 1/2: Make Pallet and Packing Boxes LWA 1/3: Make Wall Shelves LWA 1/3: Make Garden Chair LWA 1/4: Make Garden Chair LWA 1/5: Make Foldable Chair LWA 1/6: Perform Occupational Health, Safety and Environmental Practices <u>Note:</u> 1. The learning exercises may be repeated until the trainee acquires targeted competence; 2. The trainer/ instructor is advised to deliver relevant theoretical instruction with demonstrations as required to perform each learning working assignment. 		
Related Practical Exercises (PEXs)	 LWA 1/1: Make a Bench PEX1.1: Prepare working drawing PEX1.2: Prepare material list PEX1.3: Measure timber to sizes PEX1.4: Cut timber to sizes PEX1.5: Plane timber to sizes PEX1.6: Cut out notches on legs PEX1.7: Assemble members LWA 1/2: Make Pallet and Packing Boxes PEX 2.1: Prepare working drawing PEX 2.2: Prepare material list PEX 2.3: Measure timber sizes PEX 2.4: Cut timber to sizes PEX 2.5: Assemble members 		

QUALIFICATION LEV	AL: 1 September 2020
	LWA 1/3: Make Wall Shelves
	PEX 3.1: Prepare working drawing
	PEX 3.2: Prepare material list
	PEX 3.3: Measure timber to sizes
	PEX 3.4: Cut timber to sizes
	PEX 3.5: Assemble members
	LWA 1/4: Make Garden Chair
	PEX 4.1: Prepare working drawing
	PEX 4.2: Prepare material list
	PEX 4.3: Measure timber to sizes
	PEX 4.4: Plane timber to sizes
	PEX 4.5: Sandpaper members
	PEX 4.6: Assemble members
	LWA 1/5: Make Foldable Chair
	PEX 5.1: Prepare working drawing
	PEX 5.2: Prepare material list
	PEX 5.3: Measure timber to sizes
	PEX 5.4: Cut timber to sizes
	PEX 5.5: Plane timber to sizes
	PEX 5.6: Sandpaper members
	PEX 5.7: Pre-bore holes
	PEX 5.8: Assemble members
	LWA 1/6: Perform Occupational Health, Safety and
	Environmental Practices
	PEX 6.1: Wear PPE
	PEX 6.2: Observe personal hygiene
	PEX 6.3: Clean tools, equipment and machines
	PEX 6.4: Manage waste
	PEX 6.5: Administer first aid
	PEX 6.6: Perform firefighting
	PEX 6.7: Practice prevention of prevailing health issues
Occupational health and safety	Precautions, rules and regulations on occupational health, safety and environmental protection, included in the listed related knowledge should be observed and demonstrated during LWAs and PEXs
Pre-requisite modules	None

QUALIFICATION LEV	/EL: 1 September 2020
Related knowledge/ theory	 For occupational theory suggested for instruction/ demonstration, the trainer is not limited to the outline below. In any case, related knowledge/ theory may be obtained from various recognised reference materials as appropriate: Importance of working drawing Knowledge of joints and making joints Use of materials list Steps involved in material selection Procedure of making different types of furniture Safety precautions
Average duration of learning	 240 hours (30 days) of nominal learning suggested to include: 05 days of occupational theory and 25 days of occupational practice
Suggestions on organisation of learning	The acquisition of competencies (skills, knowledge, attitudes) described in this module may take place at a training centre or its equivalent provided all equipment and materials required for training are in place.
Assessment	Assessment to be conducted according to established regulations by a recognised assessment body using related practical and written test items from item bank
Minimum required tools/ equipment/ implements or equivalent	try square, tape measure, claw hammer, chisel, a mallet, hand saw, brace and bits, marking gauge, working bench
Minimum required materials and consumables or equivalent	timber, nails, sand paper, screws, pencil, rubber
Special notes	Dimensions of the finished item must match the cutting list and the working drawing.

Code	UE/CA/M1.2
Module title	M1.2: Construct Temporary Structures
Related Qualification	Part of Uganda Vocational Qualification (Carpenter UVQ1)
Qualification Level	1
Module purpose	At the end of this module, the trainee shall be able to construct temporary structures.
Learning-Working Assignments (LWAs)	 LWA 2/1: Construct Ladder LWA 2/2: Construct Hoarding LWA 2/3: Construct Trestle LWA 2/4: Construct Scaffold LWA 2/5: Construct Formwork LWA 2/6: Perform Occupational Health, Safety and Environmental Protection Practices <u>Note:</u> 1. The learning exercises may be repeated until the trainee acquires targeted competence; 2. The trainer/instructor is advised to deliver relevant theoretical instruction with demonstrations as required to perform each learning working assignment.
Related Practical Exercises (PEXs)	LWA 2/1: Construct LadderPEX 1.1: Prepare working drawingPEX 1.2: Prepare material listPEX 1.3: Cut materialsPEX 1.4: Assemble materialsLWA 2/2: Construct HoardingPEX 2.1: Prepare working drawingPEX 2.2: Prepare material listPEX 2.3: Cut materialsPEX 2.4: Assemble framePEX 2.5: Fix covering materialLWA 2/3: Construct TrestlePEX 3.1: Prepare working drawingPEX 3.2: Prepare material listPEX 3.3: Cut materials

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	PEX 3.4:	Assemble materials
	PEX 3.5:	Level stands
	LWA 2/4:	Construct Scaffold
	PEX 4.1:	Prepare working drawing
	PEX 4.2:	Prepare material list
	PEX 4.3:	Cut materials
	PEX 4.4:	Dig holes
	PEX 4.5:	Assemble framework
	PEX 4.6:	Lay platform board
	PEX 4.7:	Fix access ladder
	PEX 4.8:	Fix guard rail
	PEX 4.9:	Fix toe board
	LWA 2/5:	Construct Formwork
	PEX 5.1:	Interpret working drawing
	PEX 5.2:	Prepare material list
	PEX 5.3:	Cut materials
		Assemble box
		Apply mould oil
	PEX 5.6:	Level box
	LWA 2/6:	Perform Occupational Health, Safety and
		Environmental Protection Practices
	PEX 6.1:	Wear PPE
	PEX 6.2:	Observe personal hygiene
	PEX 6.3:	Clean tools, equipment and machines
	PEX 6.4:	Manage waste
	PEX 6.5:	Administer first aid
	PEX 6.6:	Perform firefighting
	PEX 6.7:	Practice prevention of prevailing health issues
Occupational health and safety	and envir	ns, rules and regulations on occupational health, safety ronmental protection, included in the listed related e should be observed and demonstrated during LWAs
Pre-requisite modules	None	

Related knowledge/ theory	 For occupational theory suggested for instruction/ demonstration, the trainer is not limited to the outline below. In any case, related knowledge/ theory may be obtained from various recognized reference materials as appropriate: Measuring skills Cutting skills Site hoarding, ladder and scaffold Sketching skills Drawing skills Safety rules and regulations Materials used to construct temporary structures Tools, machines and equipment Sequence of operation 	
Average duration of learning	 160 hours (20 days) of nominal learning suggested to include: 05 days of occupational theory and 15 days of occupational practice 	
Suggestions on organisation of learning	The acquisition of competencies (skills, knowledge, attitudes) described in this module may take place at a training centre or its equivalent provided all equipment and materials required for training are in place.	
Assessment	Assessment to be conducted according to established regulations by a recognised assessment body using related practical and written test items from item bank.	
Minimum required tools/ equipment/ implements or equivalent	pencil, measuring tape, square, chisel, claw hammer, mansion chisel, hand saw, log saw, claw bar, sliding bevel, hand drill, circular saw, portable hand planer, router machine, compressor, surface planner/thickness, spindle molder.	
Minimum required materials and consumables or equivalent	timber, PPE, nails, screw, hoop wire, poles, hand brush, manufactured boards, bolts, iron sheets, mold oil.	
Special notes		

Code	UE/CA/M1.3			
Module title	M1.3: Construct Single Wooden Roofs			
Related Qualification	Part of Uganda Vocational Qualification (Carpenter UVQ1)			
Qualification Level	1			
Module purpose	At the end of this module, a trainee shall be able to interpret roof working drawings and construct single roofs			
Learning-Working Assignments (LWAs)	LWA 3/1: Construct Flat Roof LWA 3/2: Construct Lean to Roof LWA 3/3: Construct Close Couple Roof LWA 3/4: Perform Occupational Health, Safety and Environmental Protection Practices Note: 1. The learning exercises may be repeated until the trainee			
	 acquires targeted competence; 2. The trainer/instructor is advised to deliver relevant theoretical instruction with demonstrations as required to perform each learning working assignment. 			
Related Practical Exercises (PEXs)	LWA 3/1:Construct Flat RoofPEX 1.1:Interpret working drawingPEX 1.2:Prepare material listPEX 1.3:Measure size of the buildingPEX 1.4:Cut timber to sizePEX 1.5:Frame roofPEX 1.6:Space raftersPEX 1.7:Trim projectionsPEX 1.8:Fix fascia boardsPEX 1.9:Fix roof covering materials			

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	LWA 3/2:	Construct Lean to Roof
	PEX 2.1:	Interpret working drawing
	PEX 2.2:	Prepare material list
	PEX 2.3:	Measure size of building
	PEX 2.4:	Cut timber to size
	PEX 2.5:	Frame trusses
	PEX 2.6:	Space purlins
	PEX 2.7:	Level purlins
	PEX 2.8:	Trim off projections
	PEX 2.9:	Fix fascia boards
	PEX 3.0:	Fix roof covering material
	LWA 3/3:	Construct Close Couple Roof
	PEX 3.1:	Interpret working drawing
	PEX 3.2:	Prepare material list
	PEX 3.3:	Measure size of the building
	PEX 3.4:	Cut timber to size
	PEX 3.5:	Frame trusses with tie beam
	PEX 3.6:	Space purlins
	PEX 3.7:	Level purlins
	PEX 3.8:	Trim off projections
	PEX 3.9:	Fix fascia boards
	PEX 4.0:	Fix roof covering materials
	LWA 3/4:	Perform Occupational Health, Safety and
		Environmental Protection Practices
	PEX 4.1:	Wear PPE
	PEX 4.2:	Observe personal hygiene
	PEX 4.3:	Clean tools, equipment and machines
	PEX 4.4:	Manage waste
	PEX 4.5:	Observe first aid
	PEX 4.6:	Perform firefighting
	PEX 4.7:	Practice prevention of prevailing health issues
Occupational health and safety	and envi	ns, rules and regulations on occupational health, safety ronmental protection, included in the listed related e should be observed and demonstrated during LWAs
Pre-requisite modules	None	

Related knowledge/ theory	 For occupational theory suggested for instruction/ demonstration, the trainer is not limited to the outline below. In any case, related knowledge/ theory may be obtained from various recognised reference materials as appropriate: Measuring Timber materials Covering materials Grading timber Use of tools, machines and equipment Roofing Sofety preparations 		
	Safety precautionsTypes of joints		
Average duration of learning	 240 hours (30 days) of nominal learning suggested to include: 05 days of occupational theory and 25 days of occupational practice 		
Suggestions on organisation of learning	The acquisition of competencies (skills, knowledge, attitudes) described in this module may take place at a training centre or its equivalent provided all equipment and materials required for training are in place.		
Assessment	Assessment to be conducted according to established regulations by a recognised assessment body using related practical and written test items from item bank		
Minimum required tools/ equipment/ implements or equivalent	tape measure, log saw, try square, hand saw, sliding bevel, water level, building line, claw hammer, hand saw, sawing trestle, hand drill, circular saw, jig saw, portable hand planer, claw bar, snipper, plumb bob		
Minimum required materials and consumables or equivalent	pencil, PPE, timber, hoop iron, wire nails, corrugated nails, manufactured boards, roofing screws.		
Special notes	Always measure twice, cut once		

Code	UE/CA/M1.4		
Module title	M1.4: Season Timber and Maintain Timber Structures		
Related Qualification	Part of Uganda Vocational Qualification (Carpenter UVQ1)		
Qualification Level	1		
Module purpose	At the end of this module, a trainee shall able to season timber and maintain timber structures.		
Learning-Working Assignments (LWAs)	LWA 4/1: Erect Seasoning Shade LWA 4/2: Arrange Timber LWA 4/3: Stack Timber		
	LWA 4/4: Replace Damaged Parts of Timber Structure LWA 4/5: Reinforce Structure		
	LWA 4/6: Perform Occupational Health, Safety and		
	Environmental Practices		
	 Note: The learning exercises may be repeated until the trainee acquires targeted competence; The trainer/instructor is advised to deliver relevant theoretical instruction with demonstrations as required to perform each learning working assignment. 		
Related Practical Exercises (PEXs)	LWA 4/1: Erect Seasoning ShadePEX 1.1: Interpret working drawingPEX 1.2: Measure size of sitePEX 1.3: Erect polesPEX 1.4: Construct roofPEX 1.5: Position bearers		
	LWA 4/2: Arrange TimberPEX 2.1: Sort timberPEX 2.2: Grade timberPEX 2.3: Protect timber end grainsLWA 4/3: Stack TimberPEX 3.1: Prepare stickers/skidsPEX 3.2: Pile timber according to sizesPEX 3.3: Test moisture content		

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	LWA 4/4: Replace Damaged Parts of Timber Structure	
	PEX 4.1: Identify level of damage	
	PEX 4.2: Remove damaged part	
	PEX 4.3: Prepare material list	
	PEX 4.4: Prepare materials	
	PEX 4.5: Fix materials	
	LWA 4/5: Reinforce Timber Structures	
	PEX 5.1: Identify weak parts	
	PEX 5.2: Prepare material list	
	PEX 5.3: Prepare materials	
	PEX 5.4: Align structure	
	PEX 5.5: Check strength of structure	
	LWA 4/6: Perform Occupational Health, Safety and	
	Environmental Protection Practices	
	PEX 6.1: Wear PPE	
	PEX 6.2: Observe personal hygiene	
	PEX 6.3: Clean tools, equipment and machines	
	PEX 6.4: Manage waste	
	PEX 6.5: Administer first aid	
	PEX 6.6: Perform firefighting	
	PEX 6.7: Practice prevention of prevailing health issues	
Occupational health and safety	Precautions, rules and regulations on occupational health, safety and environmental protection, included in the listed related knowledge should be observed and demonstrated during LWAs and PEXs	
Pre-requisite modules	None	
Related knowledge/ theory	For occupational theory suggested for instruction/ demonstration, the trainer is not limited to the outline below. In any case, related knowledge/ theory may be obtained from various recognized reference materials as appropriate:	
	Timber seasoning and defects Serting timber	
	Sorting timberYard preparation	
	Stacking timber	
	Natural air seasoning	
	Determining moisture content of timber at different intervals	

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	 Measuring skills and wood structures Identification of weak/damaged areas/parts Costing materials Safety rules and regulations Classification of timber
Average duration of learning	 240 hours (30 days) of nominal learning suggested to include: 05 days of occupational theory and 25 days of occupational practice
Suggestions on organisation of learning	The acquisition of competencies (skills, knowledge, attitudes) described in this module may take place at a training centre or its equivalent provided all equipment and materials required for training are in place.
Assessment	Assessment to be conducted according to established regulations by a recognised assessment body using related practical and written test items from item bank
Minimum required tools/ equipment/ implements or equivalent	moisture metre, stickers, shovel, spade, wheelbarrow, trowel, weighing scale, claw bar, claw hammer, snippers, tape measure, log saw, hand saw, try square, sliding bevel, water level, sawing trestle, hand drill, portable circular saw, jigsaw, portable hand planer, router machine, building line.
Minimum required materials and consumables or equivalent	timber, screws, nails, pencil, burnt bricks, poles, nails, iron sheets, cement, aggregates, sand and water.
Special notes	Differentiate between natural and artificial seasoning

Code	UE/CA/M1.5
Module title	M1.5: Maintain Carpentry Tools, Equipment and Machines
Related Qualification	Part of Uganda Vocational Qualification (Carpenter UVQ1)
Qualification Level	1
Module purpose	At the end of this module, the trainee shall be able to maintain carpentry hand tools, equipment, powered tools and wood working machines.
Learning-Working	LWA 5/1: Maintain Hand Tools
Assignments (LWAs)	LWA 5/2: Maintain Carpentry Equipment
	LWA 5/3: Maintain Power Portable Tools
	LWA 5/4: Maintain Woodworking Machines
	LWA 5/5: Perform Occupational Health, Safety and
	Environmental Protection Practices
	Note:
	 The learning exercises may be repeated until the trainee acquires targeted competence; The trainer/instructor is advised to deliver relevant theoretical instruction with demonstrations as required to perform each learning working assignment.
Related Practical	LWA 5/1: Maintain Hand Tools
Exercises (PEXs)	PEX 1.1: Sharpen cutting tools
	PEX 1.2: Replace damaged parts
	PEX 1.3: Tighten loose nuts, screws and bolts
	PEX 1.4: Clean parts of hand tools
	PEX 1.5: Lubricate parts of hand tools
	LWA 5/2: Maintain Carpentry Equipment
	PEX 2.1: Fix loose parts
	PEX 2.2: Replace broken parts
	PEX 2.3: Clean equipment parts
	PEX 2.4: Lubricate equipment parts
	LWA 5/3: Maintain Power Portable Tools
	PEX 3.1: Fix loose parts
	PEX 3.2: Replace broken parts
	PEX 3.3: Clean parts
	PEX 3.4: Lubricate parts
	PEX 3.5: Adjust and set cutters, guides and fences

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	LWA 5/4: Maintain Woodworking Machines
	PEX 4.1: Fix loose parts
	PEX 4.2: Sharpen cutters
	PEX 4.3: Lubricate parts
	PEX 4.4: Adjust and set cutters and fences
	PEX 4.5: Clean parts
	PEX 4.6: Replace belts
	LWA 5/5: Perform Occupational Health, Safety and
	Environmental Protection Practices
	PEX 5.1: Wear PPE
	PEX 5.2: Observe personal hygiene
	PEX 5.3: Clean tools, equipment and machines
	PEX 5.4: Manage waste
	PEX 5.5: Administer first aid
	PEX 5.6: Perform firefighting
	PEX 5.7: Practice prevention of prevailing health issues
	PEX 5.8: Prepare service schedules
Occupational health and safety	Precautions, rules and regulations on occupational health, safety and environmental protection, included in the listed related knowledge should be observed and demonstrated during LWAs and PEXs
Pre-requisite modules	None
Related knowledge/ theory	For occupational theory suggested for instruction/ demonstration, the trainer is not limited to the outline below. In any case, related knowledge/ theory may be obtained from various recognised reference materials as appropriate:
	Sequence of sharpening and reconditioning hand tools
	Usage of hand tools
	Types of hand tools
	Safety precautions
	Lubricating knowledge
	Types of machines
Average duration	320 hours (40 days) of nominal learning suggested to include:
of learning	• 5 days of occupational theory and
	35 days of occupational practice
Suggestions on	The acquisition of competencies (skills, knowledge, attitudes)
organisation of	described in this module may take place at a training centre or its
learning	equivalent provided all equipment and materials required for training are in place.

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Assessment	Assessment to be conducted according to established regulations by a recognised assessment body using related practical and written test items from item bank
Minimum required tools/ equipment/ implements or equivalent	files, screw drivers, oilstones, grind stones, grease gun, oil can, allen keys, spanners, saw sets, slip stone, pliers
Minimum required materials and consumables or equivalent	water, grease, oil, rug, timber, sand paper, cutters, DW-40
Special notes	

Code	UE/CA/M1.6	
Module title	Perform Entrepreneurial Tasks	
Related Qualification	Part of Uganda Vocational Qualification (Carpenter UVQ1)	
Qualification Level	1	
Module purpose	At the end of this module, the trainee shall be able to start a carpentry business for income generation.	
Learning-Working Assignments (LWAs)	 LWA 6/1: Perform Administrative Tasks LWA 6/2: Perform Legal Procedures LWA 6/3: Market Products LWA 6/4: Keep Records LWA 6/5: Perform Occupational Health, Safety and Environmental Protection Practices <u>Note:</u> 1. The learning exercises may be repeated until the trainee acquires targeted competence; 2. The trainer/instructor is advised to deliver relevant theoretical instruction with demonstrations as required to perform each learning working assignment. 	
Related Practical Exercises (PEXs)	LWA 6/1: Perform Administrative Tasks PEX 1.1: Organise resources PEX 1.2: Make budget PEX 1.3: Source material, tools and equipment PEX 1.4: Recruit workers	
	LWA 6/2: Perform Legal ProceduresPEX 2.1: Secure business premisesPEX 2.2: Develop business namePEX 2.3: Register businessPEX 2.4: Pay taxPEX 2.5: Launch businessLWA 6/3: Market ProductsPEX 3.1: Grade productsPEX 3.2: Brand productsPEX 3.3: Price productsPEX 3.4: Advertise productsPEX 3.5: Store products	

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	LWA 6/4: Generate Records	
	PEX 4.1: Prepare production records	
	PEX 4.2: Prepare material records	
	PEX 4.3: Prepare stock records	
	PEX 4.4: Prepare sales records	
	PEX 4.5: Prepare administrative reports	
	LWA 6/5: Perform Occupational Health, Safety and	
	Environmental Protection Practices	
	PEX 5.1: Wear PPE	
	PEX 5.2: Observe personal hygiene	
	PEX 5.3: Clean tools, equipment and machines	
	PEX 5.4: Manage waste	
	PEX 5.5: Administer first aid	
	PEX 5.6: Perform firefighting	
	PEX 5.7: Practice prevention of prevailing health issues	
Occupational health and safety	Precautions, rules and regulations on occupational health, safety and environmental protection, included in the listed related knowledge should be observed and demonstrated during LWAs and PEXs	
Pre-requisite modules	None	
Related knowledge/ theory	For occupational theory suggested for instruction/ demonstration, the trainer is not limited to the outline below. In any case, related knowledge/ theory may be obtained from various recognised reference materials as appropriate:	
	 Feasibility study Customer care 	
	Marketing	
	Financial literacy	
	Numeracy	
	 Legal procedures Communication 	
Avorage duration of		
Average duration of learning	120 hours (15 days) of nominal learning suggested to include:	
	5 days of occupational theory and	
	10 days of occupational practice	
Suggestions on	The acquisition of competencies (skills, knowledge, attitudes)	
organization of learning	described in this module may take place at a training centre or its equivalent provided all equipment and materials required for training are in place.	

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Assessment	Assessment to be conducted according to established regulations by a recognised assessment body using related practical and written test items from item bank
Minimum required tools/ equipment/ implements or equivalent	computers, calculators, phones, camera
Minimum required materials and consumables or equivalent	stationery, office furniture
Special notes	

3.0 ATP- PART III

Assessment Instruments for a CARPENTER

- 3.1 Assessment of occupational competence is the procedure by which evidence is gathered and judged to decide if an individual (candidate) has met the stipulated assessment standards.
- 3.2 Assessment of occupational competence should comprise of both practical (Performance) testing and written (theory/knowledge) testing.
- 3.3 Based on the Occupational Profile and Training Modules, a combined panel of job practitioners and Instructors developed a substantial number of test items for assessing (practical) performance as well as items for assessing occupational knowledge (theory) all stored in an electronic Test Item Bank (TIB) at the Directorate of Industrial Training.
- 3.4 Performance (Practical) Test Items (PTI) are closely related to typical work situations in Ugandan business enterprises. They comprise of a test assignment for candidates and assessment criteria and/or scoring guides for assessors' use.
- 3.5 Written Test items (WTI) for written testing of occupational theory, (knowledge) are presented in different forms which include: Short answer test items. Multiple choice test items, matching test items. These WTIs herein focus on functional understanding as well as trouble-shooting typically synonymous with the world of work.
- 3.6 Composition of assessment/test papers will always require good choices of different types of WTI in order to ensure the assessment of relevant occupational knowledge required of candidates to exhibit competence.
- 3.7 The test items contained in the Test Item Bank may be used for continuous/formative assessment during the process of training as well as for summative assessment of candidates who have acquired their competences non-formally or informally.
- 3.8 In this document, samples of test items for assessing both performance (practical) and occupational knowledge (theory) of a CARPENTER are included.

3.9 Overview of Test Item Samples Included

No	Type of test Items	Numbers included
1	Written (Theory)- short answer 2	
2.	Written (Theory)- multiple choice 3	
3.	Written (Theory)- matching with generic2	
4.	Written (Theory)- matching work sequence2	
5.	Performance (Practical) test items 1	
Total	<u>.</u>	10

WRITTEN TEST ITEMS (SAMPLES)

DIT/ QS	Test Item Database Written (Theory) Test Item- No. 1			
Occupational Title:	Carpenter			
Competence level:	1			
Code no.				
	Short answer	✓		
Test Item type:	Multiple choice			
	Matching item	Generic	Cause- Effect	Work- sequence
Complexity level:	C1			
Date of OP:	September, 2020			
Related modules:	M1.2			
Time allocation:	1 minute			

Test Item	What are the two distinct forms of formwork	
Answer spaces	(i) (ii)	
Expected Key (answers)	(i) Pre-cast(ii) Cast-in-situ	

DIT/ QS	Test Item Database Written (Theory) Test Item- No.2			
Occupational Title:	Carpenter	Carpenter		
Competence level:	1			
Code no.				
	Short answer	✓		
	Multiple choice			
Test Item type:	Matching item	Generic	Cause- Effect	Work- sequence
Complexity level:	C2			
Date of OP:	September, 2020			
Related modules:	M1.5			
Time allocation:	1 minute			

Test Item	Topping, shaping are operations carried out during re- conditioning of a damaged cross-cut saw. Write down the other three operations that can be used.		
Answer spaces	(i) (ii) (iii)		
Expected Key (answers)	(i) Setting(ii) Sharpening(iii) Side dressing		

DIT/ QS	W		n Database y) Test Item- N	0.3
Occupational Title:	Carpenter			
Competence level:	1			
Code no.				
	Short answer			
	Multiple choice	✓		
Test Item type:	Matching item	Generic	Cause- Effect	Work- sequence
Complexity level:	C1			
Date of OP:	September, 2020			
Related modules:	M1.3			
Time allocation:	1 minute			

Test Item	What item is used by a carpenter to access the top of the roof?
	A. Shore
Distractors and	B. Scaffold
correct answer	C. Ladder
	D. Formwork

Key (answer)	С
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DIT/ QS			em Database ry) Test Item-	No.4
Occupational Title:	Carpenter			
Competence level:	1			
Code no.				
	Short answer			
	Multiple choice	✓		
Test Item type:	Matching item	Generic	Cause- Effect	Work-sequence
Complexity level:	C1			
Date of OP:	September, 2020			
Related modules:	M1.3			
Time allocation:	1 minute			

Test Item	What type of single roof has a tie beam?
Distractors and correct answers	A. Flat roofB. Close couple roofC. Lean to roofD. Couple roof

Key (answer)	В
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DIT/ QS	Writt	Test Item en (Theory)	Database Test Item- N	lo.5
Occupational Title:	Carpenter			
Competence level:	1			
Code no.				
	Short answer			
	Multiple choice	✓		
Test Item type:	Matching item	Generic	Cause- Effect	Work- sequence
Complexity level:	C1			
Date of OP:	September, 2020			
Related modules:	M1.2			
Time allocation:	1 minute			

Test Item	Which of the listed tools is used to dismantle formwork?
	A. Hand saw
Distractors and	B. Screw driver
correct answers	C. Plier
	D. Claw bar

Key (answer)	D
,	

DIT/ QS	v	Test Iten /ritten (Theory	n Database /) Test Item- N	lo.6
Occupational Title:	Carpenter			
Competence level:	Level 1			
Code no.				
	Short answer			
	Multiple choice			
Test Item type:	Matching item	Generic	Cause- Effect	Work- sequence
		\checkmark		
Complexity level:	C2			
Date of OP:	September, 2020			
Related module:				
Time allocation:	4 minutes			

Test Item

Match the following tools with their functions

1 Courset	
1 Saw set	A Side dressing
2 Flat file	B Shaping
3 Slip stone	C Topping
4 Triangular file	D Setting
	E Backing off
	F Grinding

|--|

DIT/ QS	Test Item Database Written (Theory) Test Item- No.7				
Occupational Title:	Carpenter	Carpenter			
Competence level:	Level 1	Level 1			
Code no.					
	Short answer				
	Multiple choice				
Test Item type:	Matching item	Generic	Cause- Effect	Work- sequence	
		\checkmark			
Complexity level:	C2				
Date of OP:	September, 2020				
Related module:					
Time allocation:	4 minutes				

Test Item

Match the following machines and tools with their functions

	Column A (Functions)				
А	Boring holes				
В	Furniture finishes				
С	Wood shaping and designing				
D	Ripping timber				

Column B (Tools and machines)			
1	Hand brace		
2	Band saw		
3	Surface machine		
4	Grinding machine		
5	Spraying gun		
6	Circular saw		

Key (answer) A-1,	B-5, C-2, D-6
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DIT/ QS	Test Item Database Written (Theory) Test Item- No.8				
Occupational Title:	Carpenter	Carpenter			
Competence level:	Level 1				
Code no.					
	Short answer				
	Multiple choice				
Test Item type:	Matching item	Generic	Cause- Effect	Work-sequence	
				✓	
Complexity level:	C2	C2			
Date of OP:	September, 2020				
Related module:	M1.1				
Time allocation:	4 minutes				

Arrange the following procedure for constructing a bench in chronological order.

Column A (chronology)	Column B (work steps) in wrong chronological order	
1 st	А	Cut notches
2 nd	В	Cut timber to size
3 rd	С	Assemble members
4 th	D	Prepare working drawing
5 th	Е	Plane timber to size
6 th	F	Measure timber

Key (answer)	1:D, 2:F, 3:B, 4:E, 5:A, 6:C
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DIT/ QS	Test Item Database Written (Theory) Test Item- No.9				
Occupational Title:	Carpenter				
Competence level:	Level 1				
Code no.					
	Short answer				
	Multiple choice				
Test Item type:	Matching item	Generic	Cause- Effect	Work-sequence	
				✓	
Complexity level:	C2				
Date of OP:	September, 2020				
Related module:	M1.3				
Time allocation:	4 minutes				

Test Item

Indicate the correct job sequence in constructing a roof

Column A (chronology)	Column B (work steps) in wrong chronological order		
1 st	А	Nail the iron sheet	
2 nd	В	Fix the wall plate	
3 rd	С	Fix the purlins	
4 th	D	Cut the joints	
5 th	E	Maintain plumb ness	
6 th	F	Set the structures	
7 th	G	Erect trusses	
8 th	Н	Fix the fascia board	
9 th	I	Align the structures	
10 th	J	Trim projections	
11 th	К	Take measurements	

 Key (answer)
 1:K, 2:D, 3:B, 4:F, 5:G, G:E, 7:1, 8:C, 9:J, 10:H, 11:A

PERFORMANCE TEST ITEMS (Samples)

DIT/ QS	Test Item Database Performance Test Item 1	
Occupational Title:	Carpenter	
Competence level:	1	
Code no.		
Test Item:	Using air drying/natural methods, season ten(10) pieces of timber for formwork of 2100*300*25mm	
Complexity level:	P2	
Date of OP:	September 2020	
Related modules:	M1.4	
Related skills and knowledge:	Types of timber, Properties of timber, measuring, moisture content, protecting ends of timber, stacking skills, grading timber, Safety working environment	
Required tools, Materials and Equipment:	Brush, timber, nails, moisture metre, black polythene, stackers, hammer, bearers, handsaw.	
Time allocation:	4 hours	
Preferred venue:	Carpentry timber shade	
Remarks for candidates	 Observe rules and regulations 	
Remarks for assessors	 Provide all the required tools, equipment and materials for assessment 	

#	# Assessment criteria	Section muide	Max. Score	
#		Scoring guide	Process	Result
1	Preparation for work	Wore PPE		
		Helmet		1
		Overcoat		1
		Eye goggles		1
		Gloves		1
		Safety boots		1
		Nose mask		1

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Se	pte	mb	er	20	20

#	Assessment criteria		Max. Score	
		Scoring guide	Process	Result
		Dirt free timber seasoning site observed		2
2 Position bearers		Placed bearer on support	2	
		Bearer placed horizontally to the depth observed		1
		Bearer placed at height of 600mm above the ground(+/- 10mm)		2
		Placed bearers at the centre	2	
		Bearer placed at 1m apart observed		1
3	Prepare stickers	<u>Cutting of stickers</u> Learner held the saw with the fore finger out of the saw handle and the left hand gripping the sticker on the bench hook	2	
		Learner held the saw in a stable position	2	
		Stickers cut of the same species of the timber observed		1
		Stickers cut at 25mm ² (+/- 1mm ²⁾ observed		3
		Measuring of moisture content Measured moisture content of stickers	3	
		Moisture content of stickers at 30%-36% observed		4
4	Sort timber	Measured timber sizes	1	
		Timber size of 2100*300*25mm observed		3
		Measured timber moisture content	2	
		Moisture content of timber at 30-36% observed		4
5	Grade timber	Graded timber	3	
		Graded timber of 1 st , 2 nd and 3 rd classes observed		4
6	Protect timber ends	Protected timber ends	2	
		Timber ends covered evenly with paint observed		2
7	Stack timber	Piled timber	3	

QUALIFICATION LEVEL: 1 Septe			September 2	020
#	Assessment criteria	Scoring guide	Max. Score	
"			Process	Result
		Piled timber according to class from 1 st -3 rd observed		2
		Arranged stickers	3	
		Stickers spaced at 1m apart observed		1
		No sagging of piled timber observed		2
8	Finishing	Covered timber	2	
		Piled timber covered with black polythene membrane observed		2
		Checked moisture content	2	
		Moisture content of 18-21% observed		4
Total			29	44
Maximum Score (Y)		(X/Y)x100 73		3

4.0 ATP- PART IV

INFORMATION ON REVIEW PROCESS

4.1 Occupational Profile Review (September 2020)

The Occupational Profile was exclusively reviewed by job practitioners who were working in the Carpenter occupation. The job expert panel, guided by UVQF Facilitators, defined duties and tasks performed and provided additional generic information regarding the occupation.

4.2 Training Module Review (September 2020)

Based on the Occupational Profile for Carpenter of September 2020, training modules were reviewed by job practitioners, guided by UVQF Facilitators.

4.3 Test Item Review (September 2020)

Based on the Occupational Profile for Carpenter of September 2020, and Training Modules, Test Items were reviewed by combined panels of instructors and job practitioners, guided by UVQF Facilitators.

4.4 Methodology

The rationale for the Assessment and Training Package review was to link vocational Education and Training to the real world of work by bridging Occupational Standards to Training Standards through industry- led Standards-Based Assessment.

Active participation of both instructors and job practitioners' panels consolidated the development philosophy.

The panelists worked as teams in workshop settings complemented by offworkshop field research and literature review activities including international benchmarking.

4.5 Review panel

The participating panels of Job Practitioners required at the review stage were constituted by members from the following organisations:

	Review Panel				
No.	Name	Institution/ Organisation			
1.	Baryakira Park	St. Joseph's Technical school, Kisubi			
2.	Mauko Levi Wafula	Bishop's Senior secondary school, Mukono			
3.	Ntege Deo Ivan	Omulangira Ssemakokiro Investments			
4.	Olwa Tom	Nakawa Vocational Training Institute			
5.	Nyanzi Flavia	NCDC			
6.	Nabbaya E Robert	Jinja Vocational Training Institute			
7.	Asiimwe Edward Tarsis	Mbarara High School			
8.	Erau Daniel	Kibuli Secondary School			
9.	Mitsagharu Eric	Mengo Senior School			
10.	Bekunda Livingstone	Kako Senior Secondary school			
11.	Oketch Lewis Quinto	Lugogo Vocational Training Institute			

4.6 Facilitator team

This Assessment and Training Package was reviewed by a Facilitator team listed below:

1. Team Leader: Ms. Mukyala Ruth Ag Deputy Director/ QS Dept, DIT 2. Facilitators: Ms. Nakimuli Patra, DIT, Ms. Acayo Judith, DIT, and Ms. Asiimwe Janet, DIT 3. DIT Data Entrants: Mr. Turyasingura Yusuf and Mr. Balyejusa Simon Compiled by: Mr. Turyasingura Yusuf, DIT 4. 5. Edited by: Ms. Mukyala Ruth Ag Deputy Director, DIT 6. Coordinated by: Mr. Byakatonda Patrick Ag. Director, DIT; and Ms. Mukyala

Ruth Ag. DD Qualification Standards Dept. DIT

4.7 Reference time

The Assessment and Training Package was compiled in September 2020 and may be periodically revised to match the dynamic trends in the occupation and hence issued in different versions.

References

- 1. Woodwork by GN Green
- 2. Woodwork by David Willacy Book 1 and 2
- 3. Woodwork by Frank Hilton
- 4. Craft Woodwork by Macky
- 5. Building Construction by Motivate
- 6. Woodwork Practice by PF Lge
- 7. Carpentry and Joinery 1 (3rd Edition) by Brian Porter and Reg Rose
- 8. Carpentry and Joinery 2 (3rd Edition) by Brian Porter and Reg Rose
- 9. Woodwork by George Love
- 10. Carpentry and Joinery by R.B. Bates (Book 1 and 2)
- 11. Advanced Carpentry and Joinery by Mckay



