

Curriculum Document				
Curriculum Code	Curriculum Title			
641502000	Occupational Certificate: Carpenter			
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SECTION 1: CURRICULUM SUMMARY

1 Occupational Information

1.1 Associated Occupation

641502: Carpenter

1.2 Occupation or Specialisation Addressed by this Curriculum

641502000: Occupational Certificate: Carpenter

1.3 Alternative Titles used by Industry

Construction carpenter

2 Curriculum Information

2.1 Relation of this Curriculum to the Occupation and Qualification Progression

The likely progression for a qualified learner with this qualification is:

- Construction Foreman
- Bricklayer;
- Glazer;
- Building Insulation
- Carpenter trainer

2.2 Curriculum Structure

This qualification is made up of the following compulsory Knowledge and Practical Skill Modules:

Knowledge Modules:

- 641502000-KM-01, Health, Safety, Quality and Legislation, NQF level 3, Cr 10
- 641502000-KM-02, Environment, Energy Efficiency and Ethics NQF level 4, Cr 5
- 641502000-KM-03, Tools, Equipment, Materials and Workshop Practice, NQF level 3, Cr 20
- 641502000-KM-04, Drawings and Applied Sciences, NQF level 4, Cr 10
- 641502000-KM-05, Industry Contexts, NQF level 3, Cr 5
- 641502000-KM-06, Communication Theory, NQF level 3, Cr 5
- 641502000KM-07, Carpentry Formwork and cutting, NQF level 4, Cr 5
- 641502000KM-08, Shoring trenches/ excavations , NQF level 4, Cr 4
- 641502000KM-09, Roofing, NQF level 4, Cr 3
- 641502000KM-10, Partitioning/ ceiling, NQF level 4, Cr 2
- 641502000KM-11, Carpentry finishing, NQF level 4, Cr 3

Total number of credits for Knowledge Modules: 72

Practical Skill Modules:

- 641502000-PM-01, Set out work area, L4, Cr18
- 641502000-PM-02, Cut materials according to specifications using hand and power tools, L3, Cr12
- 641502000-PM-03, Install structures, L4, Cr16
- 641502000-PM-04, Fabricate erect and strip steel and timber formwork, L4, Cr18
- 641502000-PM-05, Prepare and erect ceilings, roof trusses, partitions and panelling, L3, Cr15
- 641502000-PM-06, Clad roof structures, L3, Cr14
- 641502000-PM-07, Finish carpentry activities, L3, Cr15

Total number of credits for Practical Skill Modules: 108

This qualification also requires the following Work Experience Modules:

- 641502000-WM-01, Processes and procedures to plan and prepare for carpentry activities in a construction environment, L3, Cr40

And

Context 1: Formwork

641502000-WM-02, Processes and procedures for constructing, erecting and installing formwork within the construction environment L4, Cr80

Or

Context 2: Roofing and partitioning

- 641502000-WM-03, Processes and procedures for constructing, erecting and installing roofing and partitioning within the construction environment, L4, Cr80

AND

- 641502000-WM-04, Processes and procedures for fitting, assembling and altering internal and external fixtures of buildings L4 Cr 60

Total number of credits for Work Experience Modules: 180

2.2.1 Details of Knowledge Modules

2.2.1.1 641502000-KM-01, Health, Safety, Quality and Legislation, NQF level 3, Cr 10

The main focus of the learning in this knowledge module is to build an understanding of the health, safety, quality and legislative theory required for the practise of carpentry.

The learning will enable learners to demonstrating an understanding of:

KM-01-KT01: Theories and principles of relevant legislation, regulations and codes (building standards, health and safety) (50%)

KM-01-KT02: Concepts, theories and principles of first aid (25%)

KM-01-KT03: Theories, concepts and principles of quality control on construction sites (25%)

2.2.1.2 641502000-KM-02, Environment, Energy Efficiency and Ethics NQF level 4, Cr 5

The main focus of the learning in this knowledge module is to develop an understanding of environmental sustainability and energy efficiency.

KM-02-KT01: Theories and principles of relevant environmental sustainability requirements (40%)

KM-02-KT02: Concepts, theories and principles of energy efficiency (40%)

KM-02-KT03: Theories, concepts and principles of ethics (20%)

2.2.1.3 641502000-KM-03, Tools, Equipment, Materials and Workshop Practice, NQF level 3, Cr 20

The main focus of the learning in this knowledge module is to build an understanding of the theory required for the use of specific construction and carpentry tools, equipment and materials.

The learning will enable learners to demonstrating an understanding of:

KM-03-KT01: Concepts, theories and principles of access equipment for construction work (55%)

KM-03-KT02: Types, purposes and uses of hand and power tools and equipment in building and construction (15%)

KM-03-KT03: Theories, concepts and principles of planning, selecting and procuring material, relevant tools, equipment and machinery (15%)

KM-03-KT04: Properties, characteristics, functions and uses of different materials in building and construction (15%)

2.2.1.4 641502000-KM-04, Drawings and Applied Sciences, NQF level 4, Cr 10

The main focus of the learning in this knowledge module is to build an understanding of the theory required for using, reading and interpreting drawings for carpentry practice in particular.

The learning will enable learners to demonstrating an understanding of:

KM-04-KT01: Concepts and principles of reading and interpreting drawings and specifications (50%)

KM-04-KT02: Concepts, theories and principles of measuring, estimating and calculating physical quantities (50%)

2.2.1.5 641502000-KM-05, Industry Contexts, NQF level 3, Cr 5

The main focus of the learning in this knowledge module is to build an understanding of the way in which the building industry functions, the structure of the industry and issues of ethics within the industry.

The learning will enable learners to demonstrating an understanding of:

KM-05-KT01: Introduction to the building industry (100%)

2.2.1.6 641502000-KM-06, Communication Theory, NQF level 3, Cr 5

The main focus of the learning in this knowledge module is to build an understanding of the various techniques of communicating within the industry.

The learning will enable learners to demonstrating an understanding of:

KM-06-KT01: Methods, principles and techniques of communication (100%)

2.2.1.7 641502000-KM-07, Carpentry Form work and cutting, L4, Cr 5

The main focus of the learning in this knowledge module is to demonstrate an understanding the concepts and principles related to theory and methods of erecting/ stripping formwork (steel and timber) and theories and principles of setting and cutting as the fundamental knowledge for practice as a Carpenter

The learning will enable learners to demonstrating an understanding of:

KM-07-KT01: Theory and methods of erecting/ stripping formwork (steel and timber) for decks, slabs, columns, beams, return stairs and a wider range of walls (50%)

KM-07-KT02: Theories and principles of setting and cutting (50%)

2.2.1.8 641502000-KM-08, Shoring trenches/ excavations, L4, Cr4

The main focus of the learning in this knowledge module is to demonstrate an understanding of theories and principles for shoring trenches/ excavations as the fundamental knowledge for practice as a Carpenter.

The learning will enable learners to demonstrating an understanding of:

KM-08-KT01: Theories and principles for shoring trenches/ excavations (100%)

2.2.1.9 641502000-KM-09, Roofing, L4, Cr 2

The main focus of the learning in this knowledge module is to demonstrate an understanding of principles and concepts of roofing as the fundamental knowledge for practice as a Carpenter.

The learning will enable learners to demonstrating an understanding of:

KM-09-KT04: Principles and concepts of roofing (100%)

2.2.1.10 641502000-KM-10, Partitioning/ ceiling, L4, Cr2

The main focus of the learning in this knowledge module is demonstrate an understanding the principles and concepts of partitioning/ ceiling as the fundamental knowledge for practice as a Carpenter.

The learning will enable learners to demonstrating an understanding of:

KM-10-KT01: Principles and concepts of partitioning/ ceiling (100%)

2.2.1.11 641502000-KM-11, Carpentry finishing, L4, Cr 2

The main focus of the learning in this knowledge module is to demonstrate an understanding of the principles and concepts of finishing carpentry as the fundamental knowledge for practice as a Carpenter.

The learning will enable learners to demonstrating an understanding of:

KM-11-KT01: Principles and concepts of finishing carpentry (100%)

2.2.2 Details of Practical Skill Modules

2.2.2.1 641502000-PM-01, Set out work area L4, Cr18

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to reading and interpret building drawings, transferring of levels and set out and prepare carpentry work areas.

The learner will be required to:

PM-01-PS01: Read and interpret drawings

PM-01-PS02: Determine and transfer levels

PM-01-PS03: Set out and prepare construction carpentry work areas

2.2.2.2 641502000-PM-02, Cut materials according to specifications using hand and power tools, L3, Cr12

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to the cut of materials and the identification, use and maintenance of hand power tools

The learner will be required to:

PM-02-PS01: Identify, use and maintain carpentry tools, materials and equipment

PM-02-PS02: Measure prepares and cut materials according to specification

2.2.2.3 641502000-PM-03 Install structures, L4, Cr16

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to timber shoring and installing of a lift shaft.

The learner will be required to:

PM-03-PS01: Conduct timber shoring

PM-03-PS02: Lift shaft

PM-03-PS03: Install returns stairs

2.2.2.4 641502000-PM-04, Fabricate, erect and stripe steel and timber formwork, L4, Cr18

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to fabrication, erecting and stripping of steel and timber formwork for columns, walls, slabs, beams and stairs

The learner will be required to:

PM-04-PS01: Erect beams and cast slabs

PM-04-PS02: Erect formworks for columns

PM-04-PS03: Erect formwork for walls

2.2.2.5 641502000-PM-05, Prepare and erect ceilings, roof trusses, partitions and panelling, L3, Cr15

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to erect ceiling, partitions, roof trusses and panelling.

The learner will be required to:

PM-05-PS01: Install ceilings and Partitions

PM-05-PS02: Manufacture and erect roof trusses

2.2.2.6 641502000-PM-06, Clad roof structures, L3, Cr14

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to cladding of roof structures using a range of sheeting.

The learner will be required to:

PM-06-PS01: Clad roof structures with a range of materials

PM-06-PS02: Position and install finishing components

2.2.2.7 641502000-PM-07, Finish carpentry activities, L3, Cr15

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to the installation of a range of carpentry finishing components.

The learner will be required to:

PM-07-PS01: Install finishing components

PM-07-PS02: Prepare and erect panelling

2.2.3 Details of Work Experience Modules

2.2.3.1 641502000WM-01, Work in a construction environment to plan and prepare for carpentry activities, L3, Cr40

The focus of the work experience is on providing the learner an opportunity to:

Gain exposure to work as part of a construction team in observing, assisting, working under direct supervision of an experienced carpenter and autonomously planning and preparation processes for setting out, altering and repairing structural and other woodwork products within a real life construction environment. The Learner will be required to complete each Work Experience at least ten (10) times for a minimum period of 40 weeks.

The learner will be required to:

WM-01-WE01: Observe and assist an experienced carpenter in a construction environment to plan and prepare for carpentry activities

WM-01-WE02: Work in a construction environment to plan and prepare for carpentry activities under direct supervision of experienced carpenter

WM-01-WE03: Autonomously work in a construction environment to plan and prepare for carpentry activities

2.2.3.2 641502000-WM-02, Processes and procedures for constructing, erecting and installing formwork within the construction environment, L4, Cr80

The focus of the work experience is on providing the learner an opportunity to:

Gain exposure to work as part of a team to undertake brick laying processes to construct or repair superstructures within a real life construction environment. The Learner will be required to complete each Work Experience at least ten (10) times for a minimum period of 40 weeks.

The learner will be required to:

WM-02-WE01: Observe and assist an experienced carpenter conduct processes for constructing, erecting and installing formwork within the construction environment

WM-02-WE02: Conduct processes for constructing, erecting and installing formwork within the construction environment under direct supervision of experienced carpenter

WM-02-WE03: Autonomously conduct processes for constructing, erecting and installing formwork within the construction environment

2.2.3.3 641502000-WM-03, Processes and procedures for constructing, erecting and installing roofing and partitioning within the construction environment, L4, Cr80

The focus of the work experience is on providing the learner an opportunity to:

Gain exposure to work as part of a construction team in observing, assisting, working under direct supervision of an experienced carpenter and autonomously conduct processes for constructing, erecting and installing structures within the civil construction environment. The Learner will be required to complete each Work Experience at least ten (10) times for a minimum period of 40 weeks.

The learner will be required to:

WM-03-WE01: Observe and assist an experienced carpenter conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment

WM-03-WE02: Conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment under direct supervision of experienced carpenter

WM-03-WE03: Autonomously conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment

2.2.3.4 641502000-WM-04, Processes and procedures for fitting, assembling and altering internal and external fixtures of buildings, L4, Cr60

The focus of the work experience is on providing the learner an opportunity to:

Gain exposure to work as part of a construction team in observing, assisting, working under direct supervision of an experienced carpenter and autonomously undertake finish preparing, fitting, assembling and altering internal and external fixtures in the construction environment .The Learner will be required to complete each Work Experience at least ten (10) times for a minimum period of 40 weeks.

The learner will be required to:

WM-04-WE01: Observe and assist an experienced carpenter undertake finish preparing, fitting, assembling and altering internal and external fixtures in the construction environment

WM-04-WE02: Undertake finishing processes for finish preparing, fitting, assembling and altering internal and external fixtures in the construction environment

WM-04-WE03: Autonomously undertake finish preparing, fitting, assembling and altering internal and external fixtures in the construction environment

2.3 International Comparability

This International Comparability study was undertaken to examine the Carpentry occupation, including the level of qualification and related curriculum. The purpose is to provide baseline information towards benchmarking the curriculum under development for the South African Master Builders Association (MBA).

A preliminary literature review considered a total of 17 countries but, the majority were eliminated to remain with only five including South Africa. The reason is that many of the countries had scanty information and/or no recognized national trade/occupation qualification stipulating a set of national standards for most trades. Consequently, the countries included in the final comparability review were: Australia, New Zealand, United Kingdom and Canada. New Zealand and Australia were considered to be particularly the most appropriate countries with which to compare with South Africa.

CONCLUSION

The comparability study highlights the current status of the availability of related information on the carpenter, including the related curricula in five countries. The findings reveal that the South African qualifications are in general comparable to what is found in the chosen benchmark countries. The comparison mainly extends to the qualification awarded, level of qualification, modes of delivery and to some extent the contents of the curricula. South Africa was found to generally have more detailed curricula. The differences appeared to be in terms of credits and the training duration.

2.4 Entry Requirements

- NQF Level 3

3 Assessment Quality Partner Information

Name of body: National Artisan Moderation Body (NAMB)

Address of body: 123 Schoeman Street; PRETORIA; 0001

Contact person name: Nic Louw

Contact person work telephone number: Tel: 011 206 1015

4 Part Qualifications

None

SECTION 2: OCCUPATIONAL PROFILE

1 Occupational Purpose

The purpose of this qualification is to prepare a learner to operate as a **Carpenter**.

Carpenters construct, erect, strip, install, renovate and repair structures and fixtures of wood, plywood, panelling, timber and steel formwork and access materials

2 Occupational Tasks

Determining materials, dimensions required and setting out and preparing a work area on a construction site

Constructing, erecting, installing and maintaining structures on work area and building sites

Fitting, assembling and altering internal and external fixtures of buildings such as walls, doors, window frames, fascia boards and panelling

3 Occupational Task Details

3.1 Determining materials, dimensions required and setting out and preparing a work area on a construction site

Unique Product or Service:

Prepared work area, material, tools and equipment

Occupational Responsibilities:

- i) Set out work area
- ii) Cut materials according to specifications using hand and power tools

Occupational Contexts:

- i) Work in a construction environment to plan and prepare for carpentry activities

3.2 Constructing, erecting, installing and maintaining structures building sites

Unique Product or Service:

Installed, supported and maintain erected structures and false work

Occupational Responsibilities:

- i) Install structures
- ii) Fabricate erect and strip steel and timber formwork
- iii) Prepare and erect ceilings, roof trusses, partitions and panelling
- iv) Clad roof structures

Occupational Contexts:

- i) Constructing, erecting and installing formwork within the construction environment
OR
- ii) Constructing, erecting and installing roofing and partitioning within the construction environment

3.3 Fitting, assembling and altering internal and external fixtures of buildings

Unique Product or Service:

Finished and complete carpentry product: partitioning, panelling

Occupational Responsibilities:

Finish carpentry activities

Occupational Contexts:

- i) Finish preparing, fitting, assembling and altering internal and external fixtures in the construction environment

SECTION 3: CURRICULUM COMPONENT SPECIFICATIONS

SECTION 3A: KNOWLEDGE MODULE SPECIFICATIONS

List of Knowledge Modules for which Specifications are included

- 641502000-KM-01, Health, Safety, Quality and Legislation, NQF level 3, Cr 10
- 641502000-KM-02, Environment, Energy Efficiency and Ethics NQF level 4, Cr 5
- 641502000-KM-03, Tools, Equipment, Materials and Workshop Practice, NQF level 3, Cr 20
- 641502000-KM-04, Drawings and Applied Sciences, NQF level 4, Cr 10
- 641502000-KM-05, Industry Contexts, NQF level 3, Cr 5
- 641502000-KM-06, Communication Theory, NQF level 3, Cr 5
- 641502000KM-07, Carpentry Formwork and cutting, NQF level 4, Cr 5
- 641502000KM-08, Shoring trenches/ excavations , NQF level 4, Cr 4
- 641502000KM-09, Roofing, NQF level 4, Cr 3
- 641502000KM-10, Partitioning/ ceiling, NQF level 4, Cr 2
- 641502000KM-11, Carpentry finishing, NQF level 4, Cr 3

641502000-KM-01, Health, Safety, Quality and Legislation, NQF level 3, Cr 10

1.1 Purpose of the Knowledge Modules

The main focus of the learning in this knowledge module is to build an understanding of the health, safety, quality and legislative theory required for the practise of carpentry.

The learning will enable learners to demonstrating an understanding of:

KM-01-KT01: Theories and principles of relevant legislation, regulations and codes (building standards, health and safety) (50%)

KM-01-KT02: Concepts, theories and principles of first aid (25%)

KM-01-KT03: Theories, concepts and principles of quality control on construction sites (25%)

1.2 Guidelines for Topics

1.2.1 KM-01-KT01: Theories and principles of relevant legislation, regulations and codes (building standards, health, safety and environmental requirements) (50%)

Topic elements to be covered include:

- | | |
|--------|---|
| KT0101 | Elements of the National Building Regulations applicable to construction |
| KT0102 | Standards, guidelines and codes applicable to construction |
| KT0103 | Aspects of the National Environmental Management Act applicable to construction |
| KT0104 | Aspects of the Occupational Health and Safety Act applicable to construction |
| KT0105 | Aspects of the Energy efficiency legislation applicable to construction |

Internal Assessment Criteria and Weight

Explain the impact of specific aspects of the National Building Regulations on construction activities

Explain the impact of specific aspects of the relevant standards, guidelines and SANS codes on construction activities

Explain the impact of specific aspects of the National Environmental Management Act on construction activities

Explain the impact of specific aspects of the Occupational Health and Safety Act on construction activities

Explain the impact of specific aspects of the Energy Efficiency legislation on construction activities

Discuss the importance of compulsory and non-compulsory registrations

Discuss the importance of applications and registrations in order to comply with legal requirements

(Weight 50%)

1.2.2 KM-01-KT02: Concepts, theories and principles of first aid (25%)

Topic elements to be covered include:

KT0201	Types of potential hazards and emergency situations
KT0202	Principles of documenting emergency procedures
KT0203	Types of injuries
KT0204	Processes of conducting CPR and mouth-to-mouth resuscitation
KT0205	Principles for dealing with infectious diseases
KT0206	Types of visible vital signs, signs of shock and first aid

Internal Assessment Criteria and Weight

Discuss how the potential hazards around an injured person can be identified and provide reasons for doing this

Describe the possible visible vital signs of an injured person and what could be done to reassure and calm the injured person

Explain the importance of not moving an injured person, having the contact details of various emergency services available and being able to access a first aid box

Discuss the key principles of mouth-to-mouth resuscitation, treating bleeding wounds, checking wounds for foreign objects, treating an injured person for shock and dealing with infectious diseases

Explain the most important issues to consider the most appropriate method, and correct procedure to control serious bleeding

(Weight 25%)

1.2.3 KM-01-KT03: Theories, concepts and principles of quality control on a construction site (25%)

Topic elements to be covered include:

KT0301	Principles of quality improvement principles that need to be monitored within construction activities
KT0302	Principles of information and documentation
KT0303	Principles of checking defects and implementation of corrective action

Internal Assessment Criteria and Weight

Discuss the concepts of cost of non- conformance, the establishment of acceptable quality targets, conformance to requirements, and the reduction in defects as they relate to quality improvement

Describe the relationship between standard and project specifications with corrections and amendments to the standard specifications.

Identify and explain how standard specifications, project document, drawings, and information from the Client / Clients Representative are used in terms of specification information and quality requirements

(Weight 25%)

1.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliance with ISO 50001

1.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

1.5 Exemptions

None

641502000-KM-02, Environment, Energy Efficiency and Ethics NQF level 4, Cr 5

2.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to develop an understanding within the learner of the importance of environmental sustainability and energy efficiency factors impacting on undertaking business operations and processes in an environmentally sustainable and responsible manner. The learner will also be exposed to the concept and practices with regard to ethics in order for them to be able to interpret ethical and non-ethical behaviour and practices.

The learning will enable learners to demonstrating an understanding of:

KM-02-KT01: Theories and principles of relevant environmental sustainability requirements (40%)

KM-02-KT02: Concepts, theories and principles of energy efficiency (40%)

KM-02-KT03: Theories, concepts and principles of ethics (20%)

2.2 Guidelines for Topics

2.2.1 KM-02-KT01: Theories and principles of relevant environmental sustainability requirements (40%)

Topic elements to be covered include:

KT0101	National Environmental Management Act applicable to construction and how they impact or affect the work activities on a construction project/site
KT0102	Global, regional and local environmental issues
KT0103	Environmental aspects and impacts
KT0104	Environment education and the work environment
KT0105	Construction and environmental sustainability
KT0106	Eco footprint
KT0107	Pollution types and their impact

Internal Assessment Criteria and Weight

Explain the impact of specific aspects of the National Environmental Management Act on construction activities

Identify components of the environment and describe their interrelationships

List pollution types and discuss their impact on the environment

Discuss the global, regional and local environmental issues and the contribution of business to it

List at least 5 applicable environmental laws in South Africa

Define the environmental legislation specific to your industry and list the ramifications for environmental damage caused

Discuss how to test the effectiveness of the Environmental Management System within the context of the larger construction site.

Describe the effects of various human activities on the environment.

Discuss pollution types and their impact

(Weight 40%)

2.2.2 KM-02-KT02: Concepts, theories and principles of energy efficiency (40%)

Topic elements to be covered include:

KT0201 Energy efficiency legislation applicable to construction and how they impact or affect the work activities on a construction project/site

KT0202 Energy saving

KT0203 Managing water usage

KT0204 Waste management

Internal Assessment Criteria and Weight

Explain the impact of specific aspects of the Energy Efficiency legislation on construction activities

Discuss energy saving activities that are applicable in the construction sector to improve their Eco footprint

Evaluate practices within the Construction sector that contribute toward environmental sustainability

Discuss the importance of managing water usage

Explain why it is important that the environment is taken care of and identify waste management practices in the Construction sector and their relationship to environmentally damaging practices

(Weight 40%)

2.2.3 KM-02-KT03: Theories, concepts and principles of ethics (20%)

Topic elements to be covered include:

KT0301 Ethics Defined

KT0302 Implementing Ethics in the Workplace

KT0303 Employer / Employee Rights

KT0304 Business and Social Responsibilities

KT0305 Ethical Decisions

Internal Assessment Criteria and Weight

Define what business ethics is and identify how it is relevant to your business

Discuss how to ensure ethical behaviour and describe the characteristics of an ethical manager

Identify unethical behaviour and discuss preventative measures to address unethical behaviour

(Weight 20%)

2.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliance with ISO 50001

2.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

2.5 Exemptions

None

641502000-KM-03, Tools, Equipment, Materials and Workshop Practice, NQF level 3, Cr 20

3.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the theory required for the use of specific construction and carpentry tools, equipment and materials. Further the Learner will build an understanding of the theory required for safe workshop use and practice.

The learning will enable learners to demonstrating an understanding of:

KM-03-KT01: Concepts, theories and principles of access equipment for construction work (55%)

KM-03-KT02: Types, purposes and uses of hand and power tools and equipment in building and construction (15%)

KM-03-KT03: Theories, concepts and principles of planning, selecting and procuring material, relevant tools, equipment and machinery (15%)

KM-03-KT04: Properties, characteristics, functions and uses of different materials in building and construction (15%)

3.2 Guidelines for Topics

3.2.1 KM-01-KT01: Concepts, theories and principles of access equipment for construction work (55%)

Topic elements to be covered include:

KT0101 Types and principles of system scaffolding

KT0102 Types of ladders, braces and ropes and their uses

KT0103 Concepts of supports for boards, adjustable jacks, couplings, locating pins, and collapsible stays

KT0104 Uses of scaffold boards and the concept of level surfaces and objects

Internal Assessment Criteria and Weight

Discuss the importance of the area being level and free of obstruction where the scaffolding is to be erected

Discuss the importance of the positioning of sole plates to eliminate the possibility of unsafe movement

Explain the role played by adjustable jacks in receiving scaffolding components to meet safety requirements

Describe what are the scaffolding components and securing methods

Explain the role of scaffold, toe boards and safety/hand rails and their positioning

Discuss the importance of height, width, length and the gap between trestles and the working plane

Interpret the requirements of sequencing in the erecting and dismantling of access equipment

Describe the different types of ladders and their uses in relation to the height and task requirements

Explain the role played by the extension range and base distance of different ladders

(Weight 55%)

3.2.2 KM-01-KT02: Types, purposes and uses of hand and power tools and equipment in building and construction (15%)

Topic elements to be covered include:

KT0201 Types of hand and power tools and equipment in building and construction

KT0202 Features and characteristics of the main types of hand and power tools and equipment in building and construction

KT0203 Purposes and safe uses of the main types of hand and power tools and equipment in building and construction

KT0204 Principles of storage and handling of hand and power tools and equipment

KT0205 Principles of cleaning and maintenance of hand and power tools and equipment

KT0206 Principles of identification and selection of hand and power tools and equipment

Internal Assessment Criteria and Weight

Discuss the critical issues related to the identification, safe use and maintenance of hand and power tools, machines and equipment

Explain the purposes of each of the most commonly used hand and power tools within a construction environment

Interpret the importance of hand tools, power tools and equipment requirements for storage and handling

Explain the importance of cleaning and maintenance of hand tools, power tools and equipment

(Weight 15%)

3.2.3 KM-01-KT03: Theories, concepts and principles of planning, selecting and procuring material, relevant tools, equipment and machinery (15%)

Topic elements to be covered include:

- KT0301 Principles and procedures of procurement of different materials, tools and equipment types
- KT0302 Concepts and principles of procurement practices on purchasing, receipt and distribution procedures
- KT0303 Concepts and principles of wastage on budgets and contractual requirements

Internal Assessment Criteria and Weight

Discuss the relationship between planning, scheduling, resourcing, costing and procurements

Explain why it is necessary to evaluate costs of wastage and its impact on construction activities and the environment

Discuss the concepts of planning, procurement, costing, quantities and quality in terms of their functions within construction activities

Discuss the concepts of purchasing, receipt and distribution of materials, tools and equipment in relation to procurement activities

(Weight 15%)

3.2.4 KM-01-KT04: Properties, characteristics, functions and uses of different materials in building and construction (15%)

Topic elements to be covered include:

- KT0401 Concepts and theories of insulation on energy efficiency requirements
- KT0402 Concepts and principles of waste disposal processes and their impact on the environment
- KT0403 Principles and theories of storage and handling of materials

Internal Assessment Criteria and Weight

Describe the handling and storage methods for materials in building and construction

Discuss the issues related to listed materials and what are the implications

Discuss the issues related to shelf life of materials and what are the implications

Explain the importance of energy efficiency and its impact on the construction industry

Describe the elements of safe disposal practices

(Weight 15%)

3.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliance with ISO 50001

3.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

3.5 Exemptions

None

4.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the theory required for using, reading and interpreting drawings for carpentry practice in particular. Learners will also build an understanding about measuring, estimating and calculating physical quantities

The learning will enable learners to demonstrating an understanding of:

KM-04-KT01: Concepts and principles of reading and interpreting drawings and specifications (50%)

KM-04-KT02: Concepts, theories and principles of measuring, estimating and calculating physical quantities (50%)

4.2 Guidelines for Topics

4.2.1 KM-04-KT01: Concepts and principles of reading and interpreting drawings and specifications (50%)

Topic elements to be covered include:

- KT0101 Purpose and functions of drawings
- KT0102 Principles of drawings and symbols
- KT0103 Scales and dimensions of drawings
- KT0104 Principles of specifications and standards
- KT0105 Principles of safe usage and storage of drawings

Internal Assessment Criteria and Weight

Discuss and explain the role of the drawings with respect to project specifications, standards and quantities in construction

Discuss the role of specifications and standards with regard to quality of work

Identify and explain the difference between plans, sections, elevations and detailed drawings.

Explain the functions and meanings of symbols abbreviations and scales

Explain the purpose of the revision numbers and the consequences of using the wrong drawings

Explain the consequences for poor handling and storage/ registration of drawings

(Weight 50%)

4.2.3 KM-01-KT02: Concepts, theories and principles of measuring, estimating and calculating physical quantities (50%)

Topic elements to be covered include:

KT0201	Units of measurements
KT0202	Principles of linear, area and volume quantities
KT0203	Types of measuring instruments and their uses

Internal Assessment Criteria and Weight

Discuss the concepts and principles in measurements, estimates, and calculation of physical quantities

Describe and explain, interpret and justify geometrical relationships to solve problems in linear, area and volume measurements

(Weight 50%)

4.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliance with ISO 50001

4.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

4.5 Exemptions

None

641502000-KM-05, Industry Contexts, NQF level 3, Cr 5

5.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the way in which the building industry functions, the structure of the industry and issues of ethics within the industry.

The learning will enable learners to demonstrating an understanding of:

KM-05-KT01: Introduction to the building industry (100%)

5.2 Guidelines for Topics

5.2.1 KM-01-KT01: Introduction to the building industry (100%)

Topic elements to be covered include:

- KT0101 Structure of the construction industry
- KT0102 Career opportunities in construction industry
- KT0103 Role-players on construction site and firm
- KT0104 Ethics (industrial relations)
- KT0105 Principles of working in a team

Internal Assessment Criteria and Weight

Describe the composition, structure and roleplayers/stakeholders in the construction industry within the South African economy

Discuss the importance and the impact of ethics, human and labour relations, team work and good conduct in a working environment

Discuss the implications of the Workmens' Compensation Act, UIF, PAYE on construction occupations

(Weight 100%)

5.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMBA/AQP
- Compliance to SHERQ
- Compliance with ISO 50001

5.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

5.5 Exemptions

None

641502000-KM-06, Communication Theory, NQF level 3, Cr 5

6.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the various techniques of communicating within the industry.

The learning will enable learners to demonstrating an understanding of:

KM-06-KT01: Methods, principles and techniques of communication (100%)

6.2 Guidelines for Topics

6.2.1 KM-06-KT01: Methods, principles and techniques of communication (100%)

Topic elements to be covered include:

- | | |
|--------|---|
| KT0101 | Methods and techniques used to manage and maintain effective communications between project participants |
| KT0102 | Forms of communication and reporting that could be utilised to ensure effective participation of all parties in a project |
| KT0103 | Elements for effective and efficient communication flows to improve and sustain performance |

Internal Assessment Criteria and Weight

Discuss the relationship between poor communication in all organisational levels and project structures and its effectiveness

Discuss the relationship between good communication and effective and efficient performance

Discuss relevant communication principles, channels, mediums to be utilised for different scenarios

Evaluate the role of communication in a construction process or activity

(Weight 100%)

6.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliance with ISO 50001

6.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

6.5 Exemptions

None

641502000-KM-07, Carpentry Form work and cutting, L4, Cr 5

7.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the theory required for the practise of carpentry. The knowledge acquired will enable learners to demonstrate an understanding the concepts and principles related to theory and methods of erecting/ stripping formwork (steel and timber) and theories and principles of setting and cutting as the fundamental knowledge for practice as a Carpenter

The learning will enable learners to demonstrating an understanding of:

KM-07-KT01: Theory and methods of erecting/ stripping formwork (steel and timber) for decks, slabs, columns, beams, return stairs and a wider range of walls (50%)

KM-07-KT02: Theories and principles of setting and cutting (50%)

7.2 Guidelines for Topics

7.2.1 KM-07-KT01: Theory and methods of erecting/ stripping formwork (steel and timber) for decks, slabs, columns, beams, return stairs and a wider range of walls (50%)

Topic elements to be covered include:

KT0101	Principles for planning fabrication for formwork
KT0102	Approaches for fabrication of different steel and timber formwork and post-fabrication activities
KT0103	Procedures for planning erection of support work
KT0104	Approaches to erection and stripping of different steel or timber formwork
KT0105	Fabricate formwork and conduct pre and post-fabrication activities (is there a difference between this and ST1202)
KT0106	Principles for erection of support work for beams and decks
KT0107	Approaches for erection of formwork with cast-in items

Internal Assessment Criteria and Weight

Explain how formwork materials are identified requisitioned, received and prepared in readiness for construction. Understand the activities to plan and facilitate a productive workflow in compliance with working drawings to minimisation material waste. Describe formwork constructed to design specified dimensions within the specified SABS tolerances

Explain why a work area is checked and cleared of debris, cleaned with tools and surplus materials are safely and securely stored.

Explain the fundamentals of stripping steel or timber formwork for a range of walls and curved bases with kicker, incorporating water bar

Explain how formwork panels are correctly marked or numbered in compliance with issued instructions and the correctness of markings or numbering is confirmed as instructed

Describe a range of elements including type and quantities of materials, tools and equipment, plant, personnel, work sequence, time frames, plant handling, personnel, work sequences

Explain why any faults that are identified to the reinforcing and base are immediately reported to designated personnel.

Describe how formwork and support work is stripped in accordance with specified curing and production requirements and appropriate precautions are taken to minimise the risk of damage to the structure, equipment and materials to ensure the safety of self and personnel during the stripping process

Discuss the fundamentals of fabricating and erecting of steel or timber for a range walls; special columns, beams, return stairs and special items such as stop ends for water bars, complex box-outs, change of direction panels and corbel (up to 2.4m), with vertical or horizontal joints

Discuss support work materials relate to beams and decks and cast-in items such as weep hole pipes; holding down bolts and void formers

Discuss the support work for the foundation is verified and readiness for erection is confirmed by the designated personnel prior to the support work being erected the erect support work for beams and decks

Explain why support work is erected in the correct position in accordance with the specified design and in accordance with instructions received and an inspection is arranged with designated personnel for the support work to be checked and confirmed prior to the commencement of further work operations

Describe how the erected formwork is grout-loss tight and stayed in accordance with work schedules

Explain how erected formwork is checked on completion and compliance with issued instructions is confirmed

Describe formwork fabrication from steel or timber for a straight wall, column and base up to 2.4m, with vertical or horizontal joints and steel or timber formwork erected up to a height of 3m

Explain the preparations of a work area where the formwork is to be fabricated and the checks and removal of hazards

Describe the shuttering materials identified, prepared for use and safely stacked at the work area in readiness for the task at hand

(Weight 50%)

KM-07-KT02: Theories and principles of setting and cutting (50%)

Topic elements to be covered include:

- KT0201 Principles for preparation of the cutting lists
- KT0202 Approaches to set out dimensions and cut templates (jigs)
- KT0203 Mark and cut timber to specifications
- KT0204 Theories of protection and storage of timber materials

Internal Assessment Criteria and Weight

Explain how cutting lists are prepared to nearest standard stock lengths

Describe and identified the tools, machines and equipment and their functional and correctly use in accordance to safety regulations

Timber or boards set out to specified dimensions and required tolerances

Timber and boards are covered and stored on level ground

(Weight 50%)

7.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

7.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

7.5 Exemptions

None

641502000-KM-08, Shoring trenches/ excavations, L4, Cr4

8.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the theory required for the practise of carpentry. The knowledge acquired will enable learners to demonstrate an understanding of theories and principles for shoring trenches/ excavations as the fundamental knowledge for practice as a Carpenter.

The learning will enable learners to demonstrating an understanding of:

KM-08-KT01: Theories and principles for shoring trenches/ excavations (100%)

8.2 Guidelines for Topics

8.2.1 KM-08-KT01: Theories and principles for shoring trenches/ excavations (100%)

Topic elements to be covered include:

- | | |
|--------|--|
| KT0101 | Installation of timber shoring |
| KT0102 | Concepts and components of timber shoring |
| KT0103 | Principles and procedures for removing shoring |

Internal Assessment Criteria and Weight

Describe how installed timber shoring prevents the collapse of and falls from the excavation sides that cause injuries and deaths

Identify components and various methods of timber shoring

Explain the procedures of installing and removing shoring in an excavation

(Weight 100%)

8.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24

- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

8.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

8.5 Exemptions

None

641502000-KM-09, Roofing, L4, Cr 3

9.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the theory required for the practise of carpentry. The knowledge acquired will enable learners to demonstrate an understanding of principles and concepts of roofing as the fundamental knowledge for practice as a Carpenter.

The learning will enable learners to demonstrating an understanding of:

KM-09-KT04: Principles and concepts of roofing (100%)

9.2 Guidelines for Topics

9.2.1 KM-09-KT01: Principles and concepts of roofing (100%)

Topic elements to be covered include:

- KT0101 Approaches to manufacture timber roof trusses to specification
- KT0102 Erect different types of roof trusses
- KT0103 Types of cladding roof structures
- KT0104 Procedures for setting out roof trusses, positioning and fixing of ridge capping, ridge tiles, valley gutters, fascia boards and barge
- KT0105 Approaches for compliance of roofing

Internal Assessment Criteria and Weight

Discuss and interpret roof layout plans according to specified dimensions and setting out, positioning, erecting and securing of hips, gables, trusses, Valley gutters and under-tile membrane in accordance with manufacturers specifications

Explain the process of setting out and fixing of roof trusses in accordance with drawing specification and ensure overhang at eaves is plumb cut and verges are cut to size.

Discuss the National Building Regulations and high risk elements of the roof structure comply with SABS 0243 Code of Practice

Explain cladding roofs with concrete and clay tiles, slate tiles, corrugated galvanised sheeting and corrugated fibre cement sheeting. Range of finishing components: ridge capping, ridge tiles, valley gutters, fascia boards, barge boards

Describe the setting out and cladding of concrete and clay tiles, slate tiles, corrugated galvanised sheeting, corrugated fibre cement sheeting roof structures and the secure fixing of all roof components

Explain roof cladding material, eave and verges overhang is cut and finished in accordance with specifications.

Discuss the setting out, positioning and fixing of ridge capping, ridge tiles, valley gutters, fascia boards, and barge

Describe roof truss dimensions, mark and cut templates (jigs) to specification and assemble components

Describe the protection and storage of assembled timber roof trusses on ground level.

(Weight 100%)

9.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

9.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

9.5 Exemptions

None

641502000-KM-10, Partitioning/ ceiling, L4, Cr2

10.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the theory required for the practise of carpentry. The knowledge acquired will enable learners to demonstrate an understanding the ppprinciples and concepts of partitioning/ ceiling as the fundamental knowledge for practice as a Carpenter.

The learning will enable learners to demonstrating an understanding of:

KM-10-KT01: Principles and concepts of partitioning/ ceiling (100%)

10.2 Guidelines for Topics

10.2.1 KM-10-KT01: Principles and concepts of partitioning/ ceiling (100%)

Topic elements to be covered include:

- KT0101 Procedures for preparation of cutting lists for partitioning
- KT0102 Erect, use and dismantle access equipment
- KT0103 Approaches for erection of ceilings and insulation installation
- KT0104 Types of erection, cladding and jointing for timber frame partitions
- KT0105 Finishing applications for partitioning/ ceiling

Internal Assessment Criteria and Weight

Describe the different types of brand ring, suspended and timber ceilings and the partitioning, cladding, dry walls and glazed wall panels.

Discuss planning of cutting lists according to specified dimensions and identify tools, machines, equipment and their function in compliance with health and safety procedures.

Explain how scaffolding is erected and dismantled in accordance with specified methods and with safety procedures.

Explain how ceiling levels are transferred, fitted, branded, spaced and secured in accordance with drawing specifications

Discuss brand ring, suspended and timber ceilings. Explain how boards and join strips are securely fixed and cornices mitred and insulated in accordance with drawing specifications

Describe how partition dimensions are accurately transferred and partition walls are plumb, level squared, mitred and correctly fitted (architraves, doors, and locks) in accordance with drawing specifications

Discuss why dry walls are jointed and sanded down to a smooth finish

(Weight 100%)

10.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

10.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

10.5 Exemptions

None

641502000-KM-11, Carpentry finishing, L4, Cr 3

11.1 Purpose of the Knowledge Module

The main focus of the learning in this knowledge module is to build an understanding of the theory required for the practise of carpentry. The knowledge acquired will enable learners to demonstrate an understanding of the principles and concepts of finishing carpentry as the fundamental knowledge for practice as a Carpenter

The learning will enable learners to demonstrating an understanding of:

KM-11-KT01: Principles and concepts of finishing carpentry (100%)

11.2 Guidelines for Topics

11.2.1 KM-11-KT01: Principles and concepts of finishing carpentry (100%)

Topic elements to be covered include:

- KT0101 Approaches for preparation of components for finishing applications and application of surface touch-ups.
- KT0102 Assessment approach/s for functionality and quality of finishing installation

Internal Assessment Criteria and Weight

Describe and explain the installation of wall panelling material, picture rails, architraves and skirting, domestic windows, doors and frames, (ledged and braced doors, framed and ledged stable type doors), ironmongery, timber floors, timber staircases, cupboards and shelving, kitchen units, towel rails, medicine cabinets, timber sills, pelmets, curtain tracks, metal and timber garage doors.

Discuss the quality and overall finish of installed components in accordance with specified requirements and housekeeping standards

Explain how to install components that are securely fitted and functional

(Weight 100%)

11.3 Provider Accreditation Requirements for the Knowledge Module

Physical Requirements:

- Classroom furniture (chairs and tables, audio equipment and all other equipment conducive to a learning environment)
- Handouts and stationery (electronic consumables, pencils/paper)
- Construction carpentry learning material

Human Resource Requirements:

- Facilitator/learner ratio 1 to 24
- Relevant qualifications/experience

Legal Requirements:

- Accredited with NAMB/AQP
- Compliance to SHERQ
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

11.4 Critical Topics to be Assessed Externally for the Knowledge Module

None

11.5 Exemptions

None

SECTION 3B: PRACTICAL SKILL MODULE SPECIFICATIONS

List of Practical Skill Module Specifications

- 641502000-PM-01, Set out work area, L4, Cr18
- 641502000-PM-02, Cut materials according to specifications using hand and power tools, L3, Cr12
- 641502000-PM-03, Install structures, L4, Cr16
- 641502000-PM-04, Fabricate erect and strip steel and timber formwork, L4, Cr18
- 641502000-PM-05, Prepare and erect ceilings, roof trusses, partitions and paneling, L3, Cr15
- 641502000-PM-06, Clad roof structures, L3, Cr14
- 641502000-PM-07, Finish carpentry activities, L3, Cr15

1 641502000-PM-01, Set out work area, L4, Cr18

1.1 Purpose of the Practical Skill Module

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to reading and interpret building drawings, transferring of levels and set out and prepare carpentry work areas.

The learner will be required to:

PM-01-PS01: Read and interpret drawings

PM-01-PS02: Determine and transfer levels

PM-01-PS03: Set out and prepare construction carpentry work areas

1.2 Guidelines for Practical Skills

1.2.1 PM-01-PS01: Read and Interpret Drawings

Scope of Practical Skill

Given work instructions, tools and building equipment, checklists, work area, plans and drawings, safety and quality procedures, standard operating procedures the learner must be able to:

PA0101 Identify drawings and symbols used on a construction plan

PA0102 Orientate a drawing on a construction site using the North compass direction indicator and adjacent landmarks

PA0103 Apply information from drawings in construction activities

PA0104 Extract information from the drawings in terms of the setting out requirements on site and estimate dimensions from scale drawings using a scale ruler and by measuring them with an ordinary ruler and multiplying by a scale factor

PA0105 Safeguard, store and issue construction drawings (Workplace)

PA0106 Identify site plans, elevations, sections, dimensions, schedules and annotations from a building drawing

Applied Knowledge

AK0101 Applicable SANS requirements

AK0102 Procedures for interpretations drawings and symbols

AK0103 Techniques for orientating of drawings

AK0104 Methods of extracting information

Internal Assessment Criteria

Drawing scales, materials and geographical symbols are identified, described and interpreted accurately from a basic building drawing

Site plans, elevations, sections, dimensions, schedules and annotations are identified, described and interpreted accurately from a basic building drawing

1.2.2 PM-01-PS02: Determine and transfer levels

Scope of Practical Skill

Given work instructions, tools and building equipment, checklists, work area, plans and drawings, safety and quality procedures, standard operating procedures the learner must be able to:

PA0201 Use levelling devices to calculate, determine and transfer levels

PA0202 Determined and transfer levels

PA0203 Select materials and use appropriate application methods

Applied Knowledge

AK0201 Applicable SANS requirements

AK0202 Standard operating procedures

AK0203 Application and use of different levelling devices

Internal Assessment Criteria

Levels onsite are calculated and accurately measured from a site datum in terms of standard operating procedures

Vertical heights of construction units such as ceiling and columns are calculated accurately from site datum

Transfer levels using a straight edge, water level, dumpy level, boring rods and laser beam is done with 100% accuracy

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1.2.3 PM-01-PS03: Set out and prepare construction carpentry work areas

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

PA0301 Identify position and set out building site layout as specified in working drawings

PA0302 Stack, store and position materials, tools and equipment

PA0303 Assess equipment infrastructure requirements

PA0304 Remove fittings or cover before and replaced after activities

Applied Knowledge

- AK0301 Safe work procedures
- AK0302 Hazard identification and risk assessment practices
- AK0303 National Building Regulations and Occupational Health and Safety legislation
- AK0304 Interpreting drawings and specifications
- AK0305 House keeping procedures

Internal Assessment Criteria

The building location and position complies to the site plan and conforms to exact positions of the walls and trenches.

The building site layout and position is identified as per specification in working drawings.

1.3 Provider Accreditation Requirements for the Module

Physical Requirements:

Demonstrate access to:

- Carpentry workshop environment
- Categories of tools, equipment and processes in order for learners to perform setting out of work area as indicated on the tool list of the AQP
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Human Resource Requirements:

- Relevant qualifications/experience
- Trainer/learner ratio 1 to 12
- Workshop coach/learner ratio 1 to

Legal Requirements:

- Accredited with NAMB/QCTO
- Compliant with Safety, Health, Environmental, Risk and Quality (SHERQ) requirements
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

1.4 Critical Practical Activities to be Assessed Externally for the Module

- None

1.5 Exemptions

- None

2 641502000-PM-02, Cut materials according to specifications using hand and power tools, L3, Cr12

2.1 Purpose of the Practical Skill Module

The focus of the learning in this module is on providing the learner an opportunity to: Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to the cut of materials and the identification, use and maintenance of hand power tools

The learner will be required to:

PM-02-PS01: Identify, use and maintain carpentry tools, materials and equipment

PM-02-PS02: Measure prepares and cut materials according to specification

2.2 Guidelines for Practical Skills

2.2.1 PM-02-PS01: Identify, use and maintain carpentry tools, materials and equipment

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures, procedure information available the learner must be able to:

PA0101 Identify, use and maintain a range of hand and power tools, machines and equipment

PA0102 Check functionality of tools and equipment

PA0103 Check power tool cables and switches for wear and tear and use power tools

PA0104 Clean and store power and hand tools after use

PA0105 Select fixed power tool and set up according to job requirements

PA0106 Identify and use tools, machines and equipment

PA0107 Maintain neat and clean work area during all stages

PA0108 Load, offload and transport equipment is to work site

Applied Knowledge

AK0201 Housekeeping procedures

AK0202 Standard operating procedures

AK0203 Manufacturer's specifications

AK0204 Applicable SANS requirements

AK0205 National Building Regulations and Occupational Health, Safety legislation and safe work procedures

Internal Assessment Criteria

A range of hand and power tools, machines and equipment are identified, used and maintained correctly in accordance with manufactures specifications

Tools, machines and equipment are identified and correctly used

Faulty and unsafe tools are identified and reported

Power and hand tools are cleaned and stored according to manufacturer's specifications

A range of carpentry tools and materials are identified, selected, maintained and used in accordance with the manufactures specifications

Tools and equipment are loaded, off-loaded and set up in accordance with manufactures specification

2.2.2 PM-02-PS02: Measure prepare and cut materials according to specification

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

PA0201 Draft cutting list from the drawings and specifications

PA0202 Determine and cut the required quantities from the list

PA0203 Mark timber and cut according to specifications

PA0204 Cut and plane joints to specified dimensions

PA0205 Construct templates and jigs to specified measurements

Applied Knowledge

AK0201 Housekeeping procedures

AK0202 Standard operating procedures

AK0203 Manufacturer's specifications

AK0204 Applicable SANS requirements

AK0205 National Building Regulations and Occupational Health, Safety legislation and safe work procedures

AK0206 Material waste management practice

Internal Assessment Criteria

Components are cut to create list required in terms of the specifications and erroneous cuts are correctly identified and corrections effected

Appropriate materials and application methods are selected and used

Material wastage is minimised in accordance with material waste management practice

The templates and jigs are constructed accurately to the specified measurements and erroneous ones identified and reported in terms of standard operating procedures

2.3 Provider Accreditation Requirements for the Module

Physical Requirements:

Demonstrate access to:

- Carpentry workshop environment
- Categories of tools, equipment and processes in order for learners to cut materials according to specifications using hand and power tools as indicated on the tool list of the AQP

Human Resource Requirements:

- Relevant qualifications/experience
- Trainer/learner ratio 1 to 12
- Workshop coach/learner ratio 1 to 4

Legal Requirements:

- Accredited with NAMB/QCTO
- Compliant with Safety, Health, Environmental, Risk and Quality (SHERQ) requirements
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

2.4 Critical Practical Activities to be Assessed Externally for the Module

None

2.5 Exemptions

- None

3 641502000-PM-03, Install structures, L4, Cr16

3.1 Purpose of the Practical Skill Module

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to timber shoring and installing of a lift shaft.

The learner will be required to:

PM-03-PS01: Conduct timber shoring

PM-03-PS02: Lift shaft

PM-03-PS03: Install returns stairs

3.2 Guidelines for Practical Skills

3.2.1 PM-03-PS01: Conduct timber shoring

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

PA0101 Identify prepare and organise the components for timber shoring

PA0102 Install timber shoring to prevent the collapse of and falls from the excavation sides

Applied Knowledge

AK0101 Housekeeping procedures

AK0102 Standard operating procedures

AK0103 Manufacturer's specifications

AK0104 Applicable SANS requirements

AK0105 National Building Regulations and Occupational Health, Safety legislation and safe work procedures

AK0106 Hazard identification and risk assessment practices

Internal Assessment Criteria

Timber shoring components and methods are identified, prepared and organised according to standard operating procedures

Timber shoring is installed to ensure trench walls are secured to prevent the collapse of and falls from the excavation sides

3.2.2 PM-03-PS02: Lift shaft

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

- PA0201 Erect steel formwork to for lift shaft on provided starter nib
- PA0202 Secure steel reinforcing in position
- PA0203 Position and secure panel and switch boxes made from timber
- PA0204 Align formwork and stays to be secure
- PA0205 Soffit formwork to be installed, supported and braced

Applied Knowledge

- AK0201 Safe work procedures
- AK0202 Standard operating procedures
- AK0203 Manufacturer's specifications
- AK0204 National Building Regulations and Occupational Health and Safety legislation
- AK0205 Applicable SANS requirements
- AK0206 Hazard identification and risk assessment practices

Internal Assessment Criteria

The formwork for the starter nib is erected as per specifications

Formwork is positioned, aligned and secured as per specifications

3.2.3 PM-03-PS03: Install return stairs

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

- PA0301 Prepare the work area
- PA0302 Fabricate formwork for return stairs
- PA0303 Conduct post-fabrication activities for return stairs
- PA0304 Level and plumb erect, treads and risers
- PA0305 Grout-loss tight formwork concrete
- PA0306 Strip formwork

Applied Knowledge

- AK0301 Safe work procedures
- AK0302 Standard operating procedures
- AK0303 Manufacturer's specifications

- AK0304 National Building Regulations and Occupational Health and Safety legislation
- AK0305 Applicable SANS requirements
- AK0306 Hazard identification and risk assessment practices

Internal Assessment Criteria

For return stairs fabricate and plan activities as per specifications (preparation includes the cleaning and treating of shutters) (preparation includes the cleaning and treating of shutters)

Pre and post-fabrication activities are undertaken as per specifications

Grout-loss tight erected formwork and to ensure not leaks when pouring concrete

Stripping process apply standard precautions to minimise the risk of damage to the structure, equipment and materials and ensure the safety of self and personnel

3.3 Provider Accreditation Requirements for the Module

Physical Requirements:

Demonstrate access to:

- Carpentry workshop environment
- Categories of tools, equipment and processes in to install structures as indicated on the tool list of the AQP

Human Resource Requirements:

- Relevant qualifications/experience
- Trainer/learner ratio 1 to 12
- Workshop coach/learner ratio 1 to 4

Legal Requirements:

- Accredited with NAMB/QCTO
- Compliant with Safety, Health, Environmental, Risk and Quality (SHERQ) requirements
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

3.4 Critical Practical Activities to be Assessed Externally for the Module

None

3.5 Exemptions

- None

4 641502000-PM-04, Fabricate, erect and stripe steel and timber formwork, L4, Cr18

4.1 Purpose of the Practical Skill Module

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to fabrication, erecting and stripping of steel and timber formwork for columns, walls, slabs, beams and stairs.

The learner will be required to:

PM-04-PS01: Erect beams and cast slabs

PM-04-PS02: Erect formworks for columns

PM-04-PS03: Erect formwork for walls

4.2 Guidelines for Practical Skills

4.2.1 PM-04-PS01: Erect beams and cast slabs

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

PA0101 Plan fabrication for beams and slabs

PA0102 Fabricate and complete formwork in accordance with work schedules and conduct post-fabrication activities for beams and slabs

PA0103 Erect support work for beams and slabs

PA0104 Arrange an inspection for formwork

PA0105 Grout-loss tight erected formwork for beams and cast slabs

PA0106 Erect formwork with cast-in items

PA0107 Strip formwork for erected beams and cast slabs

Applied Knowledge

AK0101 Safe work procedures

AK0102 Read and interpret drawings and specification

AK0103 Housekeeping procedures

AK0104 National Building Regulations and Occupational Health and Safety legislation

AK0105 Applicable SANS requirements

AK0106 Hazard identification and risk assessment practices

Internal Assessment Criteria

Beams and slabs are fabricated as per specifications (preparation includes the cleaning and treating of shutters)

Beams and slabs undergo pre and post-fabrication activities as per specifications

Grout-loss tight erected formwork for beams and slabs stripping process apply precautions to minimise the risk of damage to the structure, equipment and materials

4.2.2 PM-04-PS02: Erect formwork for columns

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

- PA0201 Prepare the work area
- PA0202 Fabricate formwork from steel or timber for columns
- PA0203 Conduct post-fabrication activities for columns
- PA0204 Grout-loss tight for columns
- PA0205 Strip formwork for columns

Applied Knowledge

- AK0201 Safe work procedures
- AK0202 Read and interpret drawings and specification
- AK0203 Housekeeping procedures
- AK0204 National Building Regulations and Occupational Health and Safety legislation
- AK0205 Applicable SANS requirements
- AK0206 Hazard identification and risk assessment practices

Internal Assessment Criteria

Columns are fabricated as per specifications (preparation includes the cleaning and treating of shutters)

Columns undergo pre and post-fabrication activities as per specifications

Grout-loss tight erected formwork for columns

Stripping process apply precautions to minimise the risk of damage to the structure, equipment and materials

4.2.3 PM-04-PS03: Erect formwork for walls

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

- PA0301 Prepare the work area
- PA0302 Fabricate formwork from steel or timber for walls
- PA0303 Conduct post-fabrication activities for walls
- PA0304 Grout-loss tight formwork for walls

PA0305 Strip formwork

Applied Knowledge

AK0301 Safe work procedures

AK0302 Standard operating procedures

AK0303 Manufacturer's specifications

AK0304 National Building Regulations and Occupational Health and Safety legislation

AK0305 Applicable SANS requirements

AK0306 Hazard identification and risk assessment practices

Internal Assessment Criteria

Walls are fabricated as per specifications (preparation includes the cleaning and treating of shutters)

Walls undergo pre and post-fabrication activities as per specifications

Grout-loss tight erected formwork and to minimise leaks when pouring concrete

Stripping process apply precautions to minimise the risk of damage to the structure, equipment and materials

4.3 Provider Accreditation Requirements for the Module

Physical Requirements:

Demonstrate access to:

- Carpentry workshop environment
- Categories of tools, equipment and processes to fabricate, erect and strip steel and timber formwork as indicated on the tool list of the AQP

Human Resource Requirements:

- Relevant qualifications/experience
- Trainer/learner ratio 1 to 12
- Workshop coach/learner ratio 1 to 4

Legal Requirements:

- Accredited with NAMB/QCTO
- Compliant with Safety, Health, Environmental, Risk and Quality (SHERQ) requirements
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

4.4 Critical Practical Activities to be Assessed Externally for the Module

None

4.5 Exemptions

- None

5 641502000-PM-05, Prepare and erect ceilings, roof trusses, partitions and paneling, L3, Cr15

5.1 Purpose of the Practical Skill Module

The focus of the learning in this module is on providing the learner an opportunity to: Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to erect ceiling, partitions, roof trusses and panelling.

The learner will be required to:

PM-05-PS01: Install ceilings and Partitions

PM-05-PS02: Manufacture and erect roof trusses

5.2 Guidelines for Practical Skills

5.2.1 PM-05-PS01: Install ceilings and Partitions

Scope of Practical Skill

Given work instructions, checklists, work area, case study, activity documents, any templates, form, safety and quality principles and standard operating procedures the learner must be able to:

PA0101 Erect branded, suspended and timber ceilings

PA0102 Install insulation

PA0103 Erect and clad timber frame partitions

PA0104 Joint and prepare partition cladding

Applied Knowledge

AK0101 Safe work procedures

AK0102 Standard operating procedures

AK0103 Manufacturer's specifications

AK0104 National Building Regulations and Occupational Health and Safety legislation

AK0105 Applicable SANS requirements

Internal Assessment Criteria

Branded, suspended and timber ceilings are erected as per the required specifications

Insulation is installed as per required specifications

Timber frame partitions undergoes cladding and erecting in accordance with manufactures specifications

The Partition cladding for finishing applications is prepared and joint in compliance with specifications

5.2.2 PM-05-PS02: Manufacture and erect roof trusses

Scope of Practical Skill

Given work instructions, checklists, work area, case study, instruments, activity documents, any templates, safety and quality principles and standard operating procedures available the learner must be able to:

- PA0201 Set out roof truss dimensions and cut templates (jigs)
- PA0202 Mark and cut timber to specifications
- PA0203 Assemble (construct) roof truss components
- PA0204 Protect and store timber roof trusses
- PA0205 Anchor wall plates, locate and mark-off positions of roof trusses on wall plate
- PA0206 Position and secure roof trusses
- PA0207 Position and secure hips, valleys and gable ends
- PA0208 Install valley gutters and include under-tile membrane as and when specified

Applied Knowledge

- AK0101 Safe work procedures
- AK0102 Standard operating procedures
- AK0103 Manufacturer's specifications
- AK0104 National Building Regulations and Occupational Health and Safety legislation
- AK0105 Applicable SANS requirements
- AK0106 Hazard identification and risk assessment practices

Internal Assessment Criteria

The roof truss dimensions are set out and cutting templates (jigs) are produced to specification.

The timber roof trusses are marked, cut and assembled to specification in accordance with material waste management practices

Anchoring wall plates are positioned and marked off on roof trusses as per specification

Roof trusses, hips, valleys, gable ends, gutters and under-tile membrane are set out and positioned to specification

5.3 Provider Accreditation Requirements for the Module

Physical Requirements:

Demonstrate access to:

- Carpentry workshop environment

- Categories of tools, equipment and processes to prepare and erect ceilings, roof trusses, partitions and panelling as indicated on the tool list of the AQP

Human Resource Requirements:

- Relevant qualifications/experience
- Trainer/learner ratio 1 to 12
- Workshop coach/learner ratio 1 to 4

Legal Requirements:

- Accredited with NAMB/QCTO
- Compliant with Safety, Health, Environmental, Risk and Quality (SHERQ) requirements
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

5.4 Critical Practical Activities to be Assessed Externally for the Module

None

5.5 Exemptions

- None

6 641502000-PM-06, Clad roof structures, L3, Cr14

6.1 Purpose of the Practical Skill Module

The focus of the learning in this module is on providing the learner an opportunity to:

Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to cladding of roof structures using a range of sheeting

The learner will be required to:

PM-06-PS01: Clad roof structures with a range of materials

PM-06-PS02: Position and install finishing components

6.2 Guidelines for Practical Skills

6.2.1 PM-06-PS01: Clad roof structures with a range of materials

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

PA0101 Prepare the work area and select, use and maintain tools, equipment and materials

PA0102 Prepare work area

PA0103 Position and install battens or purlins

PA0104 Clad roof structures with concrete, clay tiles, slate tiles, corrugated galvanised sheeting, corrugated fibre cement sheeting

Applied Knowledge

AK0101 Safe work procedures

AK0102 Standard operating procedures

AK0103 Manufacturer's specifications

AK0104 National Building Regulations and Occupational Health and Safety legislation

AK0105 Applicable SANS requirements

AK0106 Hazard identification and risk assessment practices

Internal Assessment Criteria

Cutting lists are set out and marked off to required drawing specification

Battens or purlins are set out, positioned and installed to specification

Roof structures undergo cladding with concrete, clay tiles; slate tiles, corrugated galvanised sheeting, and corrugated fibre cement sheeting as per specifications

6.2.2 PM-06-PS02: Position and install finishing components

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures procedure information available the learner must be able to:

PA0201 Prepare the work area, select, use and maintain tools, equipment and materials for finishing operations

PA0202 Position and install ridge capping, ridge tiles, valley gutters, fascia boards and barge

Applied Knowledge

AK0101 Safe work procedures

AK0102 Standard operating procedures

AK0103 Manufacturer's specifications

AK0104 National Building Regulations and Occupational Health and Safety legislation

AK0105 Applicable SANS requirements

AK0106 Hazard identification and risk assessment practices

Internal Assessment Criteria

Cutting lists are set out and marked off to required specification

Capping, ridge tiles, valley gutters, fascia boards and barge are installed according to specification

6.3 Provider Accreditation Requirements for the Module

Physical Requirements:

Demonstrate access to:

- Carpentry workshop environment
- Categories of tools, equipment and processes to prepare and erect ceilings, roof trusses, partitions and panelling as indicated on the tool list of the AQP

Human Resource Requirements:

- Relevant qualifications/experience
- Trainer/learner ratio 1 to 12
- Workshop coach/learner ratio 1 to 4

Legal Requirements:

- Accredited with NAMB/QCTO
- Compliant with Safety, Health, Environmental, Risk and Quality (SHERQ) requirements
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

6.4 Critical Practical Activities to be Assessed Externally for the Module

None

6.5 Exemptions

- None

7 641502000-PM-07, Finish carpentry activities, L3, Cr15

7.1 Purpose of the Practical Skill Module

The focus of the learning in this module is on providing the learner an opportunity to:
Practice carpentry skills within a simulated working environment. The learner will be practicing skills related to the installation of a range of carpentry finishing components.

The learner will be required to:

PM-07-PS01: Install finishing components

PM-07-PS02: Prepare and erect panelling

7.2 Guidelines for Practical Skills

7.2.1 PM-07-PS01: Install finishing components

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures available the learner must be able to:

PA0101 Prepare the work area

PA0102 Install finishing components to drawing specifications

PA0103 Conduct service and check functionality of finishing components

Applied Knowledge

AK0101 Safe work procedures

AK0102 Standard operating procedures

AK0103 Manufacturer's specifications

AK0104 National Building Regulations and Occupational Health and Safety legislation

AK0105 Applicable SANS requirements

AK0106 Hazard identification and risk assessment practices

Internal Assessment Criteria

Installation of a finishing components comply to approved drawing specification and standard operating procedures

Finished components are tested for functionality in accordance with specifications

7.2.2 PM-07-PS02: Prepare and erect panelling

Scope of Practical Skill

Given work instructions, checklists, work area, case study, testing instruments, activity documents, any templates, form, safety and quality principles and standard operating procedures the learner must be able to:

PA0201 Set up, operate and machine wooden components

PA0202 Create and use templates and jigs

PA0203 Assemble machined components and

PA0204 Install wooden wall-panels

PA0205 Fit different types of wooden moulds

Applied Knowledge

AK0201 Safe work procedures

AK0202 Standard operating procedures

AK0203 Manufacturer's specifications

AK0204 National Building Regulations and Occupational Health and Safety legislation

AK0205 Applicable SANS requirements

AK0206 Hazard identification and risk assessment practices

Internal Assessment Criteria

For installation purposes work from drawings and cutting lists and setting out and marking off to specification

The operating machines and machine wooden components is set up in accordance with manufactures specifications

Templates and jigs are created in accordance with specifications

Wall-panelling made from wood are assembled and machined to specification

A range of wooden moulds is set out and fitted to specification

7.3 Provider Accreditation Requirements for the Module

Physical Requirements:

Demonstrate access to:

- Carpentry workshop environment
- Categories of tools, equipment and processes to prepare and erect ceilings, roof trusses, partitions and panelling as indicated on the tool list of the AQP

Human Resource Requirements:

- Relevant qualifications/experience
- Trainer/learner ratio 1 to 12
- Workshop coach/learner ratio 1 to 4

Legal Requirements:

- Accredited with NAMB/QCTO
- Compliant with Safety, Health, Environmental, Risk and Quality (SHERQ) requirements
- Compliant with Compensation for Occupational Injuries and Diseases Act (COIDA) requirements

7.4 Critical Practical Activities to be Assessed Externally for the Module

None

7.5 Exemptions

- None

SECTION 3C: WORK EXPERIENCE MODULE SPECIFICATIONS

List of Work Experience Module Specifications

- 641502000-WM-01, Processes and procedures to plan and prepare for carpentry activities in a construction environment, L3, Cr40
- 641502000-WM-02, Processes and procedures for constructing, erecting and installing formwork within the construction environment Or, L4, Cr80
- 641502000-WM-03, Processes and procedures for constructing, erecting and installing roofing and partitioning within the construction environment Or, L4, Cr80
- 641502000-WM-04, Processes and procedures for fitting, assembling and altering internal and external fixtures of buildings, L4, Cr60

641502000-WM-01, Processes and procedures to plan and prepare for carpentry activities in a construction environment, L3, Cr40

1.1 Purpose of the Work Experience Module

The focus of the work experience is on providing the learner an opportunity to:

Gain exposure to work as part of a construction team in observing, assisting, working under direct supervision of an experienced carpenter and autonomously planning and preparation processes for setting out, altering and repairing structural and other woodwork products within a real life construction environment. The Learner will be required to complete each Work Experience at least ten (10) times for a minimum period of 40 weeks.

The learner will be required to:

- WM-01-WE01: Observe and assist an experienced carpenter in a construction environment to plan and prepare for carpentry activities
- WM-01-WE02: Work in a construction environment to plan and prepare for carpentry activities under direct supervision of experienced carpenter
- WM-01-WE03: Autonomously work in a construction environment to plan and prepare for carpentry activities

1.2 Guidelines for Work Experiences

1.2.1 WM-01-WE01: Observe and assist an experienced carpenter in a construction environment to plan and prepare

Scope of Work Experience

The person will be expected to engage in the following work activities:

- WA0101 Observe and assist experienced carpenter identify and interpret symbols used on drawings and check with experienced carpenter that the worksite procedure is properly set out
- WA0102 Observe and assist experienced carpenter produce a work schedule with an experienced carpenter
- WA0103 Observe and assist experienced carpenter report/communicate the work schedule to team in accordance with work procedures
- WA0104 Observe and assist experienced carpenter procure tools and materials with an experienced carpenter
- WA0105 Observe and assist experienced carpenter identify position and set out building site layout as specified in working drawings

- WA0106 Observe and assist experienced carpenter report to experienced carpenter regarding the tools, equipment and quantities of materials needed

Supporting Evidence

- SE0101 A report compiled by learner reflecting the job card numbers, what the learner assisted with to develop work schedule, procure tools and materials, identify position and set out building site layout. The report should provide details of the form the assistance took and areas of improvement required based on the comments and signed by the competent person
- SE0102 A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of quantities for materials required. Signed and approved by competent person
- SE0103 Completed job cards with work done. Signed by competent person

1.2.2 WM-01-WE02: Work in a construction environment to plan and prepare for carpentry activities under direct supervision of experienced carpenter

Scope of Work Experience

The person will be expected to engage in the following work activities:

- WA0201 Identify and interpret symbols used on drawings and under supervision of an experienced carpenter that the worksite procedure is properly set out
- WA0202 Produce a work schedule
- WA0203 Report/communicate the work schedule to team in accordance with work procedures
- WA0204 Procure tools and materials with the supervision of an experienced carpenter
- WA0205 Identify position and set out building site layout as specified in working drawings and check by an experienced carpenter that the worksite procedure is properly set out
- WA0206 Report to an experienced carpenter regarding the tools, equipment and quantities of materials needed

Supporting Evidence

- SE0201 A report compiled by learner reflecting the job card numbers, what the learner assisted with to develop work schedule, procure tools and materials, identify position and set out building site layout. Signed and approved by the competent person

- SE0202 A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of quantities for materials required. Signed and approved by competent person
- SE0203 Completed job cards with work done. Approved by competent person

1.2.3 WM-01-WE03: Autonomously work in a construction environment to plan and prepare for carpentry activities

Scope of Work Experience

The person will be expected to engage in the following work activities:

- WA0301 Identify and interpret symbols used on drawings and check that the worksite procedure is properly set out
- WA0302 Produce a work schedule
- WA0303 Report/communicate the work schedule to team in accordance with work procedures
- WA0304 Procure tools and materials
- WA0305 Identify position and set out building site layout as specified in working drawings and check that the worksite procedure is properly set out
- WA0306 Report to site supervisor/stores regarding the tools, equipment and quantities of materials needed

Supporting Evidence

- SE0301 A report compiled by learner reflecting the job card numbers, what the learner assisted with to develop work schedule, procure tools and materials, identify position and set out building site layout. Signed and approved by the competent person
- SE0302 A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of quantities for materials required. Signed and approved by competent person
- SE0303 Completed job cards with work done. Approved by competent person

1.3 Contextualised Workplace Knowledge

- 1 Company specific policies and procedures
- 2 Company specific quality management systems
- 3 Relevant sections of the Occupational Health and Safety Act
- 4 ISO standards

- 5 SANS standards
- 6 Manufacturers specification
- 7 Company housekeeping procedures

1.4 Criteria for Workplace Approval

Physical Requirements:

- Access to a construction site in order for learner to have exposure to all aspects of occupational tasks
- Tools and equipment to conduct occupational tasks
- The physical resources in terms of tools, equipment, systems, conditions and interfaces that the workplace must have to ensure that learners can participate in all work activities.

Human Resource Requirements:

- Minimum requirements to include a level 5 qualifications that includes competencies related to carpentry operations or equivalent OR at least 5 years relevant experience working within a carpentry or related industry
- Workplace coach/mentor: learner ratio 1 to 4

Legal Requirements:

- Compliant to all relevant labour relations and employment legislation
- Accredited with relevant authority
- Compliant with SHERQ requirements

1.5 Additional Assignments to be Assessed Externally

None

641502000-WM-02, Processes and procedures for constructing, erecting and installing formwork within the construction environment L4, Cr80

2.1 Purpose of the Work Experience Module

The focus of the work experience is on providing the learner an opportunity to:

Gain exposure to work as part of a construction team in observing, assisting, working under direct supervision of an experienced carpenter and autonomously conduct processes for constructing, erecting and installing structures within the building environment. The Learner will be required to complete each Work Experience at least ten (10) times for a minimum period of 40 weeks.

The learner will be required to:

WM-02-WE01: Observe and assist an experienced carpenter conduct processes for constructing, erecting and installing formwork within the construction environment

WM-02-WE02: Conduct processes for constructing, erecting and installing formwork within the construction environment under direct supervision of experienced carpenter

WM-02-WE03: Autonomously conduct processes for constructing, erecting and installing formwork within the construction environment

2.2 Guidelines for Work Experiences

2.2.1 WM-02-WE01: Observe and assist an experienced carpenter conduct processes for constructing, erecting and installing formwork within the construction environment

Scope of Work Experience

The person will be expected to engage in the following work activities:

- | | |
|--------|--|
| WA0101 | Observe and assist experienced carpenter prepare work area, check with experienced carpenter that the worksite procedure is properly set out |
| WA0102 | Observe and assist experienced carpenter produce a work schedule |
| WA0103 | Observe and assist experienced carpenter identify, prepare and organise the components for installation |
| WA0104 | Observe and assist experienced carpenter install components to specifications |
| WA0105 | Observe and assist experienced carpenter fabricate and complete formwork in accordance with work schedules |

WA0106 Observe and assist experienced carpenter strip formwork and conduct post-fabrication activities

Supporting Evidence

SE0101 Checklist detailing fabrication, completed form work, stripped formwork, component installation and post fabrication activities and the comments on the assistance provided by the learner on completion of the work

SE0102 Report compiled by the learner showing the role played to compile work schedule, installation of components, fabrication and completion of formwork and post fabrication activities. Report should contain comments by competent person on learner competence and further areas requiring improvements

SE0103 Completed job cards and signed by the competent person

2.2.2 WM-02-WE02: Conduct processes for constructing, erecting and installing formwork within the construction environment under direct supervision of experienced carpenter

Scope of Work Experience

The person will be expected to engage in the following work activities:

WA0201 Prepare work area under supervision of an experienced carpenter

WA0202 Identify prepare and organise the components for installation under supervision of an experienced carpenter

WA0203 Install components to specifications

WA0204 Fabricate and complete formwork in accordance with work schedules

WA0205 Strip formwork and conduct post-fabrication activities under supervision of an experienced carpenter

Supporting Evidence

SE0201 Checklist detailing fabrication, completed form work, stripped formwork, component installation and post fabrication activities signed by competent person

SE0202 Report compiled by the learner showing compilation of work schedule, installation of components, fabrication and completion of formwork and post fabrication activities. Report should be signed by competent person

SE0203 Completed job cards and signed by the competent person

2.2.3 WM-02-WE03: Autonomously conduct processes for constructing, erecting and installing formwork within the construction environment

Scope of Work Experience

The person will be expected to engage in the following work activities:

- WA0301 Prepare work area
- WA0302 Identify prepare and organise the components for installation
- WA0303 Install components to specifications
- WA0304 Fabricate and complete formwork in accordance with work schedules
- WA0305 Strip formwork and conduct post-fabrication activities
- WA0306 Follow housekeeping procedures

Supporting Evidence

- SE0301 Checklist detailing fabrication, completed form work, stripped formwork, component installation and post fabrication activities approved by competent person
- SE0302 Report compiled by the learner showing compilation of work schedule, installation of components, fabrication and completion of formwork and post fabrication activities. Report should be approved by competent person
- SE0303 Completed job cards and approved by the competent person

2.3 Contextualised Workplace Knowledge

1. Company specific policies and procedures
2. Company specific quality management systems
3. Relevant sections of the Occupational Health and Safety Act
4. ISO standards
5. SANS standards
6. Manufacturers specification
7. Company housekeeping procedures

2.4 Criteria for Workplace Approval

Physical Requirements:

- Access to a construction site in order for learner to have exposure to all aspects of occupational tasks
- Tools and equipment to conduct occupational tasks
- The physical resources in terms of tools, equipment, systems, conditions and interfaces that the workplace must have to ensure that learners can participate in all work activities.

Human Resource Requirements:

- Minimum requirements to include a level 5 qualifications that includes competencies related to carpentry operations or equivalent OR at least 5 years relevant experience working within a carpentry or related industry
- Workplace coach/mentor: learner ratio 1 to 4

Legal Requirements:

- Compliant to all relevant labour relations and employment legislation
- Accredited with relevant authority

Compliant with SHERQ requirements

2.5 Additional Assignments to be Assessed Externally

None

641502000-WM-03, Processes and procedures for constructing, erecting and installing roofing and partitioning within the construction environment, L4, Cr80

3.1 Purpose of the Work Experience Module

The focus of the work experience is on providing the learner an opportunity to:

Gain exposure to work as part of a construction team in observing, assisting, working under direct supervision of an experienced carpenter and autonomously conduct processes for constructing, erecting and installing structures within the civil construction environment. The Learner will be required to complete each Work Experience at least ten (10) times for a minimum period of 40 weeks.

The learner will be required to:

WM-03-WE01: Observe and assist an experienced carpenter conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment

WM-03-WE02: Conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment under direct supervision of experienced carpenter

WM-03-WE03: Autonomously conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment

3.2 Guidelines for Work Experiences

3.2.1 WM-02-WE01: Observe and assist an experienced carpenter conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment

Scope of Work Experience

The person will be expected to engage in the following work activities:

- | | |
|--------|---|
| WA0101 | Observe and assist experienced carpenter prepare work area |
| WA0102 | Observe and assist experienced carpenter identify, prepare and organise the components for installation |
| WA0103 | Observe and assist experienced carpenter clad roof structure and install ceilings according to work schedule |
| WA0104 | Observe and assist experienced carpenter manufacture, repair, alter and install roof trusses and complete roofing in accordance with work schedules |
| WA0105 | Observe and assist experienced carpenter install components to specifications |

Supporting Evidence

- SE0101 A report compiled by learner reflecting the job card numbers, what the learner assisted with to prepare work area, identify, prepare and organise the components for installation. The report should provide details of the form the assistance took and areas of improvement required based on the comments and signed by the competent person
- SE0102 A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of materials required, manufacture, repair, alter and install roof trusses and complete roofing in accordance with work schedules and install components. Signed and approved by competent person
- SE0103 Completed job cards with work done. Signed by competent person

3.2.2 WM-03-WE02: Conduct processes for constructing, erecting and installing formwork within the construction environment under direct supervision of experienced carpenter

Scope of Work Experience

The person will be expected to engage in the following work activities:

- WA0201 Prepare work area under supervision of an experienced carpenter
- WA0202 Identify prepare and organise the components for installation under supervision of an experienced carpenter
- WA0203 Install components to specifications
- WA0204 Fabricate and complete formwork in accordance with work schedules
- WA0205 Strip formwork and conduct post-fabrication activities under supervision of an experienced carpenter

Supporting Evidence

- SE0201 A report compiled by learner reflecting the job card numbers, preparation of work area, identification and organisation of components for installation. The report should provide details of the form the assistance took and areas of improvement required based on the comments signed by the competent person
- SE0202 A report compiled by the learner reflecting the job card numbers, handling of operational issues and provision of adequate procurement of materials, manufacturing, reparation, alteration and installation of roof trusses, completion

roofing in accordance with work schedules and installation of components.

Signed and approved by competent person

SE0203 Completed job cards with work done. Approved by competent person

3.2.3 WM-03-WE03: Autonomously conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment

Scope of Work Experience

The person will be expected to engage in the following work activities:

WA0301 Prepare work area

WA0302 Identify prepare and organise the components for installation

WA0303 Install components to specifications

WA0304 Fabricate and complete formwork in accordance with work schedules

WA0305 Strip formwork and conduct post-fabrication activities

WA0306 Follow housekeeping procedures

Supporting Evidence

SE0301 Checklist detailing fabrication, completed form work, stripped formwork, component installation and post fabrication activities approved by competent person

SE0302 Report compiled by the learner showing compilation of work schedule, installation of components, fabrication and completion of formwork and post fabrication activities. Report should be approved by competent person

SE0303 Completed job cards and approved by the competent person

3.3 Contextualised Workplace Knowledge

- 1 Company specific policies and procedures
- 2 Company specific quality management systems
- 3 Relevant sections of the Occupational Health and Safety Act
- 4 ISO standards
- 5 SANS standards
- 6 Manufacturers specification
- 7 Company housekeeping procedures are followed

3.4 Criteria for Workplace Approval

Physical Requirements:

- Access to a construction site in order for learner to have exposure to all aspects of occupational tasks
- Tools and equipment to conduct occupational tasks
- The physical resources in terms of tools, equipment, systems, conditions and interfaces that the workplace must have to ensure that learners can participate in all work activities.

Human Resource Requirements:

- Minimum requirements to include a level 5 qualifications that includes competencies related to carpentry operations or equivalent OR at least 5 years relevant experience working within a carpentry or related industry
- Workplace coach/mentor: learner ratio 1 to 4

Legal Requirements:

- Compliant to all relevant labour relations and employment legislation
- Accredited with relevant authority
- Compliant with SHERQ requirements

3.5 Additional Assignments to be Assessed Externally

None

641502000-WM-04 Processes and procedures for fitting, assembling and altering internal and external fixtures of buildings, L4, Cr60

4.1 Purpose of the Work Experience Module

The focus of the work experience is on providing the learner an opportunity to:

Gain exposure to work as part of a construction team in observing, assisting, working under direct supervision of an experienced carpenter and autonomously undertake finish preparing, fitting, assembling and altering internal and external fixtures in the construction environment. The Learner will be required to complete each Work Experience at least ten (10) times for a minimum period of 40 weeks.

The learner will be required to:

- WM-04-WE01: Observe and assist an experienced carpenter undertake fitting, assembling and altering internal and external fixtures of buildings in the construction environment
- WM-04-WE02: Undertake finishing processes for fitting, assembling and altering internal and external fixtures of buildings in the construction environment
- WM-04-WE03: Autonomously undertake fitting, assembling and altering internal and external fixtures of buildings in the construction environment

4.2 Guidelines for Work Experiences

4.2.1 WM-04-WE01: Observe and assist an experienced carpenter undertake fitting, assembling and altering internal and external fixtures of buildings in the construction environment

Scope of Work Experience

The person will be expected to engage in the following work activities:

- WA0101 Observe and assist experienced carpenter prepare of the work area
- WA0102 Observe and assist an experienced carpenter with the installation of a finishing components comply to approved drawing specification and standard operating procedures
- WA0103 Observe and assist experienced carpenter conduct service and check functionality of finishing components

Supporting Evidence

SE0101 A report compiled by learner reflecting the job card numbers, what the learner assisted with to prepare work area and installation of a finishing components. The report

should provide details of the form the assistance took and areas of improvement required based on the comments and signed by the competent person

SE0102 A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of materials required, install components and conduct service and check functionality of finished components. Signed and approved by competent person

SE0103 Completed job cards with work done. Signed by competent person

4.2.2 WM-04-WE02: Undertake finishing processes for fitting, assembling and altering internal and external fixtures of buildings in the construction environment

Scope of Work Experience

The person will be expected to engage in the following work activities:

WA0201 Prepare the work area under supervision of an experienced carpenter

WA0202 Installation of a finishing components comply to approved drawing specification and standard operating procedures under supervision of an experienced carpenter

WA0203 Conduct service and check functionality of finishing components under supervision of an experienced carpenter

Supporting Evidence

SE0201 A report compiled by learner reflecting the job card numbers, preparation of work area and installation of a finishing components, and signed by the competent person

SE0202 A report compiled by the learner reflecting the job card numbers, handling of operational issues, ensuring provision of adequate supply of materials required, installation of components and conducting service and check functionality of finished components. Signed and approved by competent person

SE0203 Completed job cards with work done. Signed by competent person

4.2.3 WM-04-WE03: Autonomously undertake fitting, assembling and altering internal and external fixtures of buildings in the construction environment

Scope of Work Experience

The person will be expected to engage in the following work activities:

WA0301 Prepare the work area

WA0302 Installation of a finishing components comply to approved drawing specification and standard operating procedures

WA0303 Conduct service and check functionality of finishing components

Supporting Evidence

- SE0301 A report compiled by learner reflecting the job card numbers, preparation of work area and installation of a finishing components, and approved by the competent person
- SE0302 A report compiled by the learner reflecting the job card numbers, handling of operational issues, ensuring provision of adequate supply of materials required, installation of components and conducting service and check functionality of finished components. Signed and approved by competent person
- SE0303 Completed job cards with work done. Signed by competent person

4.3 Contextualised Workplace Knowledge

1. Company specific policies and procedures
2. Company specific quality management systems
3. Relevant sections of the Occupational Health and Safety Act
4. ISO standards
5. SANS standards
6. Manufacturers specification
7. Company housekeeping procedures

4.4 Criteria for Workplace Approval

Physical Requirements:

- Access to a construction site in order for learner to have exposure to all aspects of occupational tasks
- Tools and equipment to conduct occupational tasks
- The physical resources in terms of tools, equipment, systems, conditions and interfaces that the workplace must have to ensure that learners can participate in all work activities.

Human Resource Requirements:

- Minimum requirements to include a level 5 qualifications that includes competencies related to carpentry operations or equivalent OR at least 5 years relevant experience working within a carpentry or related industry
- Workplace coach/mentor: learner ratio 1 to 4

Legal Requirements:

- Compliant to all relevant labour relations and employment legislation

- Accredited with relevant authority
- Compliant with SHERQ requirements

4.5 Additional Assignments to be Assessed Externally

None

SECTION 4: STATEMENT OF WORK EXPERIENCE

STATEMENTS OF WORK EXPERIENCE

Curriculum Number:	641502000
Curriculum Title:	National Occupational Qualification: Carpenter

Learner Details	
Name:	
ID Number:	

Employer Details	
Company Name:	
Address:	
Supervisor Name:	
Work Telephone:	
E-Mail:	

641502000-WM-01, Work in a construction environment to plan and prepare for carpentry activities, L3, Cr40

WM-01-WE01	Observe and assist an experienced carpenter in a construction environment to plan and prepare for carpentry activities	Date	Signature
Work Activities			
WA0101	Observe and assist experienced carpenter identify and interpret symbols used on drawings and check with experienced carpenter that the worksite procedure is properly set out		
WA0102	Observe and assist experienced carpenter produce a work schedule with an experienced carpenter		
WA0103	Observe and assist experienced carpenter report/communicate the work schedule to team in accordance with work procedures		
WA0104	Observe and assist experienced carpenter procure tools and materials with an experienced carpenter		
WA0105	Observe and assist experienced carpenter identify position and set out building site layout as specified in working drawings		
WA0106	Observe and assist experienced carpenter report to experienced carpenter regarding the tools, equipment and quantities of materials needed		
Supporting Evidence			
SE0101	A report compiled by learner reflecting the job card numbers, what the learner assisted with to develop work schedule, procure tools and materials, identify position and set out building site layout. The report should provide details of the form the assistance took and areas of improvement required based on the comments and signed by the competent person		

SE0102	A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of quantities for materials required. Signed and approved by competent person		
SE0103	Completed job cards with work done. Signed by competent person		

WM-01-WE02	Work in a construction environment to plan and prepare for carpentry activities under direct supervision of experienced carpenter	Date	Signature
	Work Activities		
WA0201	Identify and interpret symbols used on drawings and under supervision of an experienced carpenter that the worksite procedure is properly set out		
WA0202	Communicate with foreman on operational issues including storage, the allocation of tasks labour resources, tools, materials and equipment		
WA0203	Produce a work schedule		
WA0204	Procure tools and materials with the supervision of an experienced carpenter		
WA0205	Identify position and set out building site layout as specified in working drawings and check by an experienced carpenter that the worksite procedure is properly set out		
WA0206	Report to an experienced carpenter regarding the tools, equipment and quantities of materials needed		
	Supporting Evidence		
SE0201	A report compiled by learner reflecting the job card numbers, what the learner assisted with to develop work schedule, procure tools and materials, identify position and set out building		

	site layout. Signed and approved by the competent person		
SE0202	A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of quantities for materials required. Signed and approved by competent person		
SE0203	Completed job cards with work done. Approved by competent person		

WM-01-WE03	Autonomously plan and prepare processes for work in a construction environment to plan and prepare for carpentry activities	Date	Signature
	Work Activities		
WA0301	Identify and interpret symbols used on drawings and check that the worksite procedure is properly set out		
WA0302	Produce a work schedule		
WA0303	Report/communicate the work schedule to team in accordance with work procedures		
WA0304	Procure tools and materials		
WA0305	Identify position and set out building site layout as specified in working drawings and check that the worksite procedure is properly set out		
WA0306	Report to site supervisor/stores regarding the tools, equipment and quantities of materials needed		
	Supporting Evidence		
SE0301	A report compiled by learner reflecting the job card numbers, what the learner assisted with to develop work schedule, procure tools and materials, identify position and set out building site layout. Signed and approved by the competent person		

SE0302	A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of quantities for materials required. Signed and approved by competent person		
SE0303	Completed job cards with work done. Approved by competent person		

	Contextualised Workplace Knowledge		
1	Company specific policies and procedures		
2	Company specific quality management systems		
3	Relevant sections of the Occupational Health and Safety Act		
4	ISO standards		
5	SANS standards		
6	Manufacturers specification		
	Additional Assignments to be Assessed Externally		
1	None		
2			

641502000-WM-02, Processes and procedures for constructing, erecting and installing formwork within the construction environment, L4, Cr80

WM-02-WE01	Observe and assist an experienced carpenter conduct processes for constructing, erecting and installing formwork within the construction environment	Date	Signature
Work Activities			
WA0101	Observe and assist experienced carpenter prepare work area, check with experienced carpenter that the worksite procedure is properly set out		
WA0102	Observe and assist experienced carpenter produce a work schedule		
WA0103	Observe and assist experienced carpenter identify prepare and organise the components for installation		
WA0104	Observe and assist experienced carpenter install components to specifications		
WA0105	Observe and assist experienced carpenter fabricate and complete formwork in accordance with work schedules		
WA0106	Observe and assist experienced carpenter strip formwork and conduct post-fabrication activities		
Supporting Evidence			
SE0101	Checklist detailing fabrication, completed form work, stripped formwork, component installation and post fabrication activities and the comments on the assistance provided by the learner on completion of the work		
SE0102	Report compiled by the learner showing the role played to compile work schedule, installation of components, fabrication and completion of formwork and post fabrication activities. Report should contain comments by competent person		

	on learner competence and further areas requiring improvements		
SE0103	Completed job cards and signed by the competent person		

WM-02-WE02	Conduct processes for constructing, erecting and installing formwork within the construction environment under direct supervision of experienced carpenter	Date	Signature
	Work Activities		
WA0201	Prepare work area under supervision of an experienced carpenter		
WA0202	Identify prepare and organise the components for installation under supervision of an experienced carpenter		
WA0203	Install components to specifications		
WA0204	Fabricate and complete formwork in accordance with work schedules		
WA0205	Strip formwork and conduct post-fabrication activities under supervision of an experienced carpenter		
	Supporting Evidence		
SE0201	Checklist detailing fabrication, completed form work, stripped formwork, component installation and post fabrication activities signed by competent person		
SE0202	Report compiled by the learner showing compilation of work schedule, installation of components, fabrication and completion of formwork and post fabrication activities. Report should be signed by competent person		
SE0203	Completed job cards and signed by the competent person		

WM-02-WE03	Autonomously conduct processes for constructing, erecting and installing formwork	Date	Signature
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	within the construction environment		
	Work Activities		
WA0301	Prepare work area		
WA0302	Identify prepare and organise the components for installation		
WA0303	Install components to specifications		
WA0304	Fabricate and complete formwork in accordance with work schedules		
WA0305	Strip formwork and conduct post-fabrication activities		
WA0306	Follow housekeeping procedures		
	Supporting Evidence		
SE0301	Checklist detailing fabrication, completed form work, stripped formwork, component installation and post fabrication activities approved by competent person		
SE0302	Report compiled by the learner showing compilation of work schedule, installation of components, fabrication and completion of formwork and post fabrication activities. Report should be approved by competent person		
SE0303	Completed job cards and approved by the competent person		

	Contextualised Workplace Knowledge		
1	Company specific policies and procedures		
2	Company specific quality management systems		
3	Relevant sections of the Occupational Health and Safety Act		
4	ISO standards		
5	SANS standards		
6	Manufacturers specification		
	Additional Assignments to be Assessed Externally		
1	None		

641502000-WM-03, Constructing, erecting and installing roofing and partitioning within the construction environment, L4, Cr80

WM-03-WE01	Constructing, erecting and installing roofing and partitioning within the construction environment	Date	Signature
Work Activities			
WA0101	Observe and assist experienced carpenter prepare work area		
WA0102	Observe and assist experienced carpenter identify, prepare and organise the components for installation		
WA0103	Observe and assist experienced carpenter clad roof structure and install ceilings according to work schedule		
WA0104	Observe and assist experienced carpenter manufacture, repair, alter and install roof trusses and complete roofing in accordance with work schedules		
WA0105	Observe and assist experienced carpenter install components to specifications		
Supporting Evidence			
SE0101	A report compiled by learner reflecting the job card numbers, what the learner assisted with to prepare work area, identify, prepare and organise the components for installation. The report should provide details of the form the assistance took and areas of improvement required based on the comments and signed by the competent person		
SE0102	A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of materials required, manufacture, repair, alter and install roof trusses and complete roofing in accordance with work		

	schedules and install components. Signed and approved by competent person		
SE0103	Completed job cards with work done. Signed by competent person		

WM-03-WE02	Conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment under direct supervision of experienced carpenter	Date	Signature
	Work Activities		
WA0201	Prepare work area under supervision of an experienced carpenter		
WA0202	Identify prepare and organise the components for installation under supervision of an experienced carpenter		
WA0203	Clad roof structure and install ceilings according to work schedule under supervision of an experienced carpenter		
WA0204	Manufacture, repair, alter and install roof trusses and complete roofing in accordance with work schedules under supervision of an experienced carpenter		
WA0205	Install components to specifications under supervision of an experienced carpenter		
WA0206	Follow housekeeping procedures under supervision of an experienced carpenter		
	Supporting Evidence		
SE0201	A report compiled by learner reflecting the job card numbers, preparation of work area, identification and organisation of components for installation. The report should provide details of the form the assistance took and areas of improvement required based on the comments signed by the competent person		
SE0202	A report compiled by the learner reflecting the job card numbers, handling of operational		

	issues and provision of adequate procurement of materials, manufacturing, reparation, alteration and installation of roof trusses, completion roofing in accordance with work schedules and installation of components. Signed and approved by competent person		
SE0203	Completed job cards with work done. Approved by competent person		

WM-03-WE03	Autonomously conduct processes for constructing, erecting and installing roofing and partitioning within the construction environment	Date	Signature
	Work Activities		
WA0301	Prepare work area		
WA0302	Identify prepare and organise the components for installation		
WA0303	Clad roof structure and install ceilings according to work schedule		
WA0304	Manufacture, repair, alter and install roof trusses and complete roofing in accordance with work schedules		
WA0305	Install components to specifications		
	Supporting Evidence		
SE0301	A report compiled by learner reflecting the job card numbers, preparation of work area, identification and organisation of components for installation, approved by competent person		
SE0302	A report compiled by the learner reflecting the job card numbers, handling of operational issues and provision of adequate procurement of materials, manufacturing, reparation, alteration and installation of roof trusses, completion roofing in accordance with work schedules and installation of components. Signed and approved by competent person		
SE0303	Completed job cards with work done. Approved		

	by competent person		
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	Contextualised Workplace Knowledge		
1	Company specific policies and procedures		
2	Company specific quality management systems		
3	Relevant sections of the Occupational Health and Safety Act		
4	ISO standards		
5	SANS standards		
6	Manufacturers specification		
	Additional Assignments to be Assessed Externally		
1	None		

641502000-WM-04, Processes and procedures for fitting, assembling and altering internal and external fixtures of buildings in the construction environment, L4, Cr60

WM-04-WE01	Observe and assist an experienced carpenter undertake fitting, assembling and altering internal and external fixtures of buildings in the construction environment	Date	Signature
Work Activities			
WA0101	Observe and assist experienced carpenter prepare of the work area		
WA0102	Observe and assist an experienced carpenter with the installation of a finishing components comply to approved drawing specification and standard operating procedures		
WA0103	Observe and assist experienced carpenter conduct service and check functionality of finishing components		
Supporting Evidence			
SE0101	A report compiled by learner reflecting the job card numbers, what the learner assisted with to prepare work area and installation of a finishing components. The report should provide details of the form the assistance took and areas of improvement required based on the comments and signed by the competent person		
SE0102	A report compiled by the learner reflecting the job card numbers and assistance provided by the learner supporting the carpenter handle operational issues and ensuring provision of adequate supply of materials required, install components and conduct service and check functionality of finished components. Signed and approved by competent person		
SE0103	Completed job cards with work done. Signed by competent person		

WM-04-WE02	Undertake finishing processes for fitting, assembling and altering internal and external fixtures of buildings in the construction environment	Date	Signature
	Work Activities		
WA0201	Prepare the work area under supervision of an experienced carpenter		
WA0202	Installation of a finishing components comply to approved drawing specification and standard operating procedures under supervision of an experienced carpenter		
WA0203	Conduct service and check functionality of finishing components under supervision of an experienced carpenter		
	Supporting Evidence		
SE0201	A report compiled by learner reflecting the job card numbers, preparation of work area and installation of a finishing components, and signed by the competent person		
SE0202	A report compiled by the learner reflecting the job card numbers, handling of operational issues, ensuring provision of adequate supply of materials required, installation of components and conducting service and check functionality of finished components. Signed and approved by competent person		
SE0203	Completed job cards with work done. Signed by competent person		

WM-04-WE03	Autonomously undertake fitting, assembling and altering internal and external fixtures of buildings in the construction environment	Date	Signature
	Work Activities		
WA0301	Prepare the work area		
WA0302	Installation of a finishing components comply to approved drawing specification and standard		

	operating procedures		
WA0303	Conduct service and check functionality of finishing components		
	Supporting Evidence		
SE0301	A report compiled by learner reflecting the job card numbers, preparation of work area and installation of a finishing components, and approved by the competent person		
SE0302	A report compiled by the learner reflecting the job card numbers, handling of operational issues, ensuring provision of adequate supply of materials required, installation of components and conducting service and check functionality of finished components. Signed and approved by competent person		
SE0303	Completed job cards with work done. Signed by competent person		

	Contextualised Workplace Knowledge		
1	Company specific policies and procedures		
2	Company specific quality management systems		
3	Relevant sections of the Occupational Health and Safety Act		
4	ISO standards		
5	SANS standards		
6	Manufacturers specification		
	Additional Assignments to be Assessed Externally		
1	None		