



OCCUPATIONAL CERTIFICATE: WATER RETICULATION PRACTITIONER

SAQA ID: 102581 – NQF LEVEL 4

STUDENT GUIDE: MODULE 4

MODULE 4: 642605001-KM-04: BASIC SLINGING AND LIFTING OPERATIONS

4.1. Overview

Code	Topic	Percentage
KM-04-KT01	SLINGING REGULAR LOADS KT0101 – Basic principles of slinging KT0102 – Slinging equipment KT0103 – Types of slings KT0104 – Slinging techniques or methods KT0105 – Load weight KT0106 – Communication methods KT0107 – Safe working practices KT0108 – Post-slinging activities	20%
KM-04-KT02	MANUAL LIFTING EQUIPMENT AND TACKLE KT0201 – Lifting equipment used by a WRP KT0202 – Inspection of manual lifting equipment and tackle KT0203 – Defects in manual lifting equipment and tackle KT0204 – Safety measures KT0205 – Safe working practices	30%
KM-04-KT03	LIFTING MACHINES AND LIFTING OPERATIONS WITH MANUAL LIFTING EQUIPMENT AND TACKLE KT0301 – Types of lifting machines KT0302 – Preparations for lifting task KT0303 – Conditions KT0304 – Materials and methods used for fixing, anchoring, bracing, supporting, and securing loads KT0305 – Demarcations procedures KT0306 – Processes involved in lifting and moving loads using manual lifting equipment and tackle KT0307 – Safety requirements	30%
KM-04-KT04	DIRECT CRANE OPERATIONS KT0401 – Types of cranes used in a water reticulation environment KT0402 – Crane operations KT0403 – Hazards and risks associated with crane directing operations KT0404 – Preparation for crane directing KT0405 – Directing crane operations	20%

4.2. Learning outcomes

Module	Learning Outcomes
KM-04-KT01	<ul style="list-style-type: none"> ▪ Describe a regular load (mainly heavy water pipes) ▪ Explain how to determine load weight ▪ Describe the lifting equipment used by a WRP ▪ Describe types of slings and slinging techniques used by a WRP ▪ Describe the selection and pre-operational checks of slinging equipment ▪ Describe slinging techniques for a regular load ▪ Identify problems that can occur during slinging ▪ Describe the use, care, and storage of slinging equipment ▪ Describe safe working practices regarding slinging loads
KM-04-KT02	<ul style="list-style-type: none"> ▪ Describe the types of lifting equipment used by a WRP ▪ Describe the inspection procedures for manual lifting equipment and tackle ▪ Identify and describe the defects associated with manual lifting equipment and tackle ▪ Describe the safe use of and safe working practices for manual lifting equipment and tackle ▪ Describe the safety measures to be employed when working with manual lifting equipment and tackle ▪ Describe the procedures to maintain, care for and store manual lifting equipment and tackle
KM-04-KT03	<ul style="list-style-type: none"> ▪ Identify and describe various lifting machines ▪ Describe all aspects related to preparations to be undertaken prior to lifting a load ▪ Describe the pre-operational and inspection processes for lifting and moving loads using manual lifting equipment and tackle ▪ Describe the various conditions that must be considered before any lifting operation can be carried out ▪ Describe the materials and methods used for fixing, anchoring, bracing, supporting, and securing loads ▪ Describe the demarcation procedures to be undertaken before lifting operation ▪ Describe all the processes involved in lifting and moving loads using manual lifting equipment and tackle ▪ Describe the safety requirements to be implemented when working with manual lifting equipment and tackle
KM-04-KT04	<ul style="list-style-type: none"> ▪ Identify and describe the types of cranes used ▪ Identify hazards and associated risks, pertaining to the crane directing process ▪ Describe the specified colour coding and symbolic signs pertaining to the crane operating area ▪ Explain the communication methods in terms of generally accepted industry practice ▪ Describe the preparations to direct crane operations ▪ Describe crane directing operations