



OCCUPATIONAL CERTIFICATE: WATER RETICULATION PRACTITIONER

SAQA ID: 102581 – NQF LEVEL 4

MODULE 8

Module 8 - Module Information

Module	Learning Outcomes
KM-08-KT01	<ul style="list-style-type: none"> • Describe the planning of work tasks • Explain how site or affected area is inspected for risks or hazards and how to mitigate them • Identify the means a WRP uses to communicate with the public • Describe remedial actions and resources that WRP can take • Explain what sound environmental practice within the context of the WRP's occupation is • Explain the importance of ensuring that tools and equipment are in good working order, used safely, and cleaned, checked, and stored properly • Explain the importance of good record keeping within the context of the WRP's occupation
KM-08-KT02	<ul style="list-style-type: none"> • Explain the purpose of balancing water volumes • Explain NRW supply • Describe how to determine trends in the analysis of water loss information • Demonstrate how to collect and record meter readings and flow data, as part of checking the water balance • Explain the reason for obtaining meter readings for a complete zone over a standard period • Explain the reason for arranging a zonal meter logging procedure • Explain why minimum night flow is accurately recorded • Demonstrate how to scrutinise consumer records, summarise incidences of zero consumption and assess trends • Show how to investigate the reasons for zero or unusually low consumption, identify illegal connections and explain appropriate solutions

KM-08-KT03	<ul style="list-style-type: none"> • Describe the methods of reporting a breakdown in the water reticulation system • List the generic steps to identify the cause and extent of a breakdown • Describe the various types of leaks and locations at which leaks can potentially occur • Describe the causes of leaks • Describe the various leak detection techniques in terms of their suitability for specified situations • Describe the limitations of leak detection methods • Describe acceptable industry thresholds for leak detection in accordance with local water supply authority standards • Describe typical leakage rates in relation to service connections, pipe material, and pressures • Describe leak repair techniques
KM-08-KT04	<ul style="list-style-type: none"> • Describe the types of problems associated with valves • Describe the repair and replacement procedures for valves and their components • Explain the importance of valve manufacturer's • planned/preventative maintenance procedures • Describe the maintenance of actuators
KM-08-KT05	<ul style="list-style-type: none"> • Describe pump problems and the procedures to investigate their possible causes • Describe the procedures to follow when a pump problem has been identified • Explain the importance of pump manufacturer's • planned/preventative maintenance procedures • Describe the safety measures to be adhered to when working on pumps • Describe the tools required to work with pumps

KM-08-KT06	<ul style="list-style-type: none"> • List the tools required to maintain water meters • Describe meter faults and the methods of dealing with them • Describe the maintenance requirements for meters • Describe the safety measures to be adhered to when working on meters
KM-08-KT07	<ul style="list-style-type: none"> • Explain the concept of team organisation • Define the team roles and explain the allocation of responsibilities in context of the WRP • Describe the types of meetings that a WRP will be involved in and the information flow in this environment • Describe conflict management techniques • Describe the type of reporting that will be done by the WRP • Explain the importance of managing the assets entrusted to the WRP • Explain the importance of identifying the strengths and weaknesses of team members