

RETICULATION SERVICES QUALIFICATIONS & SKILLS PROGRAMMES

15 July 2014

FULL QUALIFICATION

Qual name	Name	Cred	NQF
60169	National Certificate: Water and Wastewater Reticulation Services	124	2
60155	National Certificate: Water and Wastewater Reticulation Services	124	3
60189	Further Education & Training Certificate: Wastewater and Water Reticulation Services	135	4

1. RETICULATION BASICS

Mod	Unit Std	Name	Cred	NQF	Qual
M154	254063	Demonstrate knowledge of pipes, associated fittings valves & meters used in water & wastewater reticulation systems	10	2	60169
M156	10252	Identify, inspect, use, maintain & care for engineering hand tools	6	2	60169
M157	254060	Operate mechanical, electrical, hydraulic & pneumatic tools & equipment	4	2	60169
M130	246463	Demonstrate knowledge of water cycle, water and wastewater systems and processes	5	2	60169

2. OPERATIONS AND MAINTENANCE

Mod	Unit Std	Name	Cred	NQF	Qual
M166	254062	Demonstrate knowledge of water reticulation system and the cleaning and disinfection thereof	12	2	60169
M164	254054	Demonstrate knowledge of wastewater pipe unblocking & maintenance	12	2	60169
M198	254066	Operate a reticulation pump station	10	3	60155
M194	254069	Demonstrate knowledge of the operation and maintenance of mechanical and electrical equipment	10	3	60155
M101	115907	Operate and maintain a wastewater reticulation system	15	3	60155
M80	12340	Operate and maintain water reticulation systems	12	3	60155
M206	254077	Provide water services support for rural communities	10	3	60155
M193	254076	Demonstrate knowledge of hydraulics and flow measurement in water and wastewater systems	12	3	60155



Reticulation Servicemen laying pipes in Knysna, RSA ©Outcomes Publishing

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3. SAFETY

Mod	Unit Std	Name	Cred	NQF	Qual
M278 (M135 + M152)	246459+ 13222	Apply personal safety practices in the water sector. Deal with safety, health and environmental emergencies in the work place	8	2	60155
M195	254064	Enter, work in, and exit a confined space in the water industry	3	3	60155

4. INSTALLATION

Mod	Unit Std	Name	Cred	NQF	Qual
M155	254061	Excavate a trench & install shoring	4	2	60169
M153	254059	Demonstrate knowledge of backfilling and compaction	4	2	60169
M196	254194	Join pipe fittings and other pipe-line devices	12	3	60155
M197	254070	Lay pipes for water and wastewater reticulation systems	12	3	60155
M199	254075	Read and interpret maps and engineering drawings of water & wastewater reticulation systems	5	3	60155
M200	254072	Connect a customer drainage system to a public wastewater system	5	3	60155
M201	254067	Connect a customer to a water reticulation system	3	3	60155
M160	12481	Sling loads	4	2	60169
M151	254055	Construct water reticulation concrete work and brick masonry	5	2	60169

5. SUPERVISORY AND MANAGEMENT

Mod	Unit Std	Name	Cred	NQF	Qual
M209	14417	Lead and supervise construction teams	8	4	60189
M211	254119	Plan and organize maintenance and construction task for water and wastewater reticulation services	12	4	60189
M212	254099	Supervise personal safety practices in the workplace	4	4	60189
M207	254096	Demonstrate knowledge of corrosion control	6	4	60189
M211	14417	Plan and organize maintenance and construction task for water wastewater reticulation services	8	4	60189
M225	254119	Demonstrate knowledge of wastewater composition, odours, and odour control	12	4	60189
M242	254099	Manage and maintain water or wastewater reticulation	18	5	59201
M208	254121	Demonstrate knowledge of the characteristics of water flow	10	4	60189
M225	254100	Demonstrate knowledge of wastewater composition, odours, and odour control	6	4	60189
M227	254095	Maintain water quality in water supply reticulation systems	4	5	60189

6. WATER CONSERVATION, WATER DEMAND MANAGEMENT, WATER LOSS AND JOB CREATION

Mod	Unit Std	Name	Cred	NQF	Qual
M228	254094	Manage water resources	12	4	60189
M230	254118	Apply water loss control principles	5	8	60189
M223	254122	Demonstrate knowledge of leak detection and leak detection programmes	4	4	60189
M224	254104	Demonstrate knowledge of the operation and maintenance of flow control and air valves in pipelines	4	4	60189
M202	254073	Demonstrate knowledge of pressure zones and backflow prevention in water reticulation	4	3	60155
M165	254057	Demonstrate knowledge of water meters & reading techniques, & identify faults in meters	3	2	60189
M310	254057	Achieve No-Drop Status	-	5	
M310		Set up WCWDM Team & create employment	-	5	
M168	11783	Install & maintain a water supply system.	12	3	60169

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