

Field Engineering and Technology

Review of unit standards for *Extractive Industries*

Subfield	Domain	ID
Extractive Industries	Extractive Industries Management	8903, 15247, 16697, 17692, 17979, 17980, 17982, 17984 -17986, 17989, 17991, 17992, 19737, 19738, 20333, 23546, 23550, 23649, 23650, 24469, 25879, 25880, 31763
	Surface Extraction	8891- 8893, 8895, 8901, 8914, 14868, 14870, 16689, 16690, 16694, 17697, 17699, 17981, 17983, 17988, 17990, 17993, 19734 -19736, 22058 - 22060, 22346, 27241
	Underground Extraction	7151, 7165

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council has completed the review of the unit standards listed above.

Summary

The review of the unit standards listed above was long overdue as this industry has undergone extensive health and safety review resulting in more stringent regulatory requirements identifying specific unit standards required for compliance. The Technical Advisory Group (TAG), who conducted the review consisted of industry, regulatory bodies and providers who have consent to assess, identified that the unit standards are no longer required for current training programmes.

Main changes

- All unit standards have been set to expire.

Category D unit standards will expire at the end of December 2027

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Engineering and Technology > Extractive Industries > Extractive Industries Management

ID	Title	Level	Credit	Review Category
8903	Maintain screens on production plant at an extractives site	3	5	D
15247	Manufacture ANFO explosives	4	10	D
16697	Deal with mine fires using extinguishing agents	4	3	D
17692	Use advanced mathematics to solve problems in an extractive industries workplace	5	15	D

ID	Title	Level	Credit	Review Category
17979	Describe and operate a belt wagon at an extraction site	4	12	D
17980	Describe and operate a bucket wheel excavator at an extraction site	4	15	D
17982	Describe and operate control rooms at an extraction site	4	15	D
17984	Describe and operate a gravity separation system at an extraction site	4	12	D
17985	Describe and operate high-capacity slurry pumping systems at an extraction site	4	20	D
17986	Describe and operate magnetic separation systems at an extraction site	4	12	D
17989	Describe, operate, and control recyclable water systems at an extraction site	4	12	D
17991	Describe and operate slurry pumping systems at an extraction site	4	20	D
17992	Select, design, maintain, and manage stockpiles at an extractive site	5	15	D
19737	Demonstrate basic knowledge of coal quality assurance	2	5	D
19738	Demonstrate advanced knowledge of coal quality assurance	5	15	D
20333	Describe the legal and operational requirements for an approved handler for Class 1 substances	4	10	D
23546	Research and analyse a current industry issue or opportunity in Minerals Industry Risk Management	7	20	D
23550	Manage the mine ventilation system at an extractive site	7	30	D
23649	Develop, implement, and review maintenance plans for an extractive site	6	20	D
23650	Undertake production planning, monitor, and make recommendations for improvements in production for an extractive site	6	25	D
24469	Apply risk management processes at an extractive site	4	5	D
25879	Select crushing and screening plant for extractive industries	5	10	D
25880	Use simple maths to solve extractives related problems	2	4	D
31763	Demonstrate knowledge of continuing professional development requirements in the extractive industries	2	2	D

Engineering and Technology > Extractive Industries > Surface Extraction

ID	Title	Level	Credit	Review Category
8891	Carry out hydraulic sand extraction operations	4	12	D
8892	Blend product using a blending plant for extractive industries	4	8	D
8893	Carry out weighbridge operations for extractive industries	3	10	D
8895	Supervise loading out of materials from extractive sites	4	12	D
8901	Make and spread stockpiles for an extractive site	2	3	D
8914	Arrange for laboratory testing of crushed stone and rock aggregates	4	15	D
14868	Demonstrate knowledge of and operate a lime mill processing plant	4	45	D
14870	Operate a rope excavator	3	12	D

ID	Title	Level	Credit	Review Category
16689	Demonstrate knowledge of alluvial gold recovery plant equipment	4	12	D
16690	Evaluate a mine plan, interpret, and execute sampling procedures	4	12	D
16694	Control quality of product from operation of mobile and static sizing plant	4	4	D
17697	Design blasting layouts and carry out blasting operations for construction and infrastructure sites	4	40	D
17699	Describe procedures, plan layouts, assemble, place and fire shots for snow control	4	20	D
17981	Describe and operate a hopper/cable reel car at a surface extraction site	3	6	D
17983	Demonstrate knowledge of emergency shutdown procedures at a sand extractives site	2	6	D
17988	Describe and operate primary feed systems at a sand extraction site	3	10	D
17990	Describe and plan sampling; and collect, store, and transport samples at a surface extraction site	3	15	D
17993	Describe and operate a tailings disposal system at an extractive site	3	12	D
19734	Demonstrate knowledge of and maintain an aerial ropeway at an extractive site	4	15	D
19735	Demonstrate knowledge of and operate an aerial ropeway at an extractive site	3	12	D
19736	Demonstrate knowledge of and operate a coal processing plant	3	10	D
22058	Describe and operate a drying plant at an extractive site	3	10	D
22059	Describe and operate a separate circuit at a lime mill processing plant	4	20	D
22060	Describe and operate moveable conveyors at a surface extraction site	4	15	D
22346	Operate a water truck safely for surface work at an extractive site	3	6	D
27241	Operate a motor grader safely for surface work at an extractive site	3	10	D

Engineering and Technology > Extractive Industries > Underground Extraction

ID	Title	Level	Credit	Review Category
7151	Operate a load haul dump machine with attachments in an underground operation	3	10	D
7165	Install tracks and ballast for rope and locomotive haulage systems in an underground extractive site	4	10	D