

Field Engineering and Technology**Review of *Metalliferous Mining* standards**

Subfield	Domain	ID
Metalliferous Mining	Metalliferous Mining - Management	24464-24473
	Surface Metalliferous Mining	24474-24487, 24489-24491
	Underground Metalliferous Mining	24492-24499

The NZ Extractive Industries Training Organisation (EXITO) has completed the review of the standards listed above.

Date new versions published

September 2010

Planned review date

December 2013

Summary

SkillsDMC, the Australian National Industry Skills Council for the Resources and Infrastructure sectors (which include drilling, mining, quarrying, and civil infrastructure), recently reviewed its Training Packages and related Units of Competency.

As a result, the MNM05 Metalliferous Mining Training Package was replaced with the RII09 Resources and Infrastructure Industry Training Package, and changes were made to the Units of Competency that form the basis of these Metalliferous Mining standards. EXITO therefore completed a parallel review of these standards to align them with the reviewed Australian Units of Competency.

As part of the review process, representatives from the metalliferous mining sector considered:

- the currency of the Australian Units of Competency, and their suitability for existing and future national qualifications in New Zealand
- the appropriateness of their content to the New Zealand context
- whether levels and credit values were commensurate with performance outcomes and the time required to learn and demonstrate competence in the skills and knowledge described in the standards
- the assessability of the Australian Units of Competency.

Main changes

- All of the standards from the Metalliferous Mining - Management domain were moved to the newly registered Metalliferous Mining - Operations domain, because this domain more accurately reflects their content.
- Standards 24477, 24486, and 24490 were moved from the Surface Metalliferous Mining domain to the newly registered Metalliferous Mining - Operations domain, because this domain more accurately reflects their content.
- Standards 24474-24476, 24478-24485, and 24487 were moved from the Surface Metalliferous Mining domain to the newly registered Metalliferous Mining - Processing domain, as it more accurately reflects their content.

- Standard 24491 was moved from the Surface Metalliferous Mining domain, where it had been incorrectly registered, to the Underground Metalliferous Mining domain.
- Standard 24465 was replaced by standard 26550 to reflect the significant change in content of its matching Australian Unit of Competency.
- Standard 24489 was designated expiring as it is not considered relevant to the New Zealand context.
- The titles of standards 24464, 24466, 24471, 24474-24484, 24486, 24487, 24490, and 24491 were updated.
- The credit values of standards 24469, 24470, 24472-24474, 24476, 24480-24486, 24490, 24491, 24496, 24497, and 24499 were increased.
- The level of standard 24491 was increased to Level 3 to align with its matching Australian Unit of Competency, as its outcomes align with the Level 3 NZQF descriptors.
- Purpose statements were updated to reflect the changes to the reviewed Australian Units of Competency.
- The special notes and definitions in some of the coversheets were updated to ensure that they are up-to-date and that they reflect the requirements of industry and the changes to the Australian Units of Competency.
- The references in the cover sheets to Australian Units of Competency and the reviewed training package were updated.

Category C and D unit standards will expire at the end of December 2012

Impact on registered qualifications

Key to type of impact	
Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following EXITO qualifications are impacted by the outcomes of this review and will be updated when they are reviewed in 2014, or when they are next revised. The standards that generated the status *Affected* are listed in **bold**.

Qualification Title and Reference	ID
National Certificate in Extractive Industries (Operations) (Level 3) with strands in Coal Plant, Drilling Surface, Drilling Underground, Maintenance Operations, Metalliferous Processing, Mobile Plant Surface, Processing Plant, Surface Extraction, Underground Extraction, and Water Treatment [Ref: 1521]	24467, 24470 , 24471, 24472-24474 , 24475, 24476 , 24477, 24478, 24480-24486 , 24487, 24490 , 24496
National Certificate in Extractive Industries (Operations) (Level 4) with strands in Drilling Underground, Metalliferous Processing, Processing Plant, Surface Extraction, and Underground Extraction [Ref: 1522]	24465 , 24473 , 24484 , 24490

Detailed list of 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 > Metalliferous Mining > Metalliferous Mining - Management Engineering and Technology > Metalliferous Mining > Metalliferous Mining - Operations

ID	Title	Level	Credit	Review Category
24464	Contribute to quality work outcomes through work activities in a metalliferous mine Maintain and monitor site quality standards in a metalliferous mine	2	2	B
24466	Plan and organise individual work in a metalliferous mine Plan and organise work in a metalliferous mine	2	2	B
24467	Service mine plant and equipment in a metalliferous mine	2	4	B
24468	Transport plant, equipment and personnel in a metalliferous mine	2	3	B
24469	Apply risk management processes in a metalliferous mine	3	3 5	B
24470	Assess ground conditions in a metalliferous mine	3	2 4	B
24471	Operate mine services vehicle in a metalliferous mine Operate mine service vehicle in a metalliferous mine	3	3	B
24472	Conduct integrated tool carrier operations in a metalliferous mine	3	2 5	B
24473	Respond to local emergencies and incidents in a metalliferous mine	3	2 5	B

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ID	Domain	Title	Level	Credit	Review Category
24465	Metalliferous Mining - Management	Maintain a magazine in a metalliferous mine	2	2	C
26550	Metalliferous Mining - Operations	Store, handle and transport explosives in a metalliferous mine	2	2	

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ID	Domain	Title	Level	Credit	Review Category
24474	Surface Metalliferous Mining Metalliferous Mining - Processing	Handle reagents for transportation, storage, mixing and usage in a surface metalliferous mine Handle reagents for transportation, storage, mixing and usage in a metalliferous mine	2	3 5	B
24475	Surface Metalliferous Mining Metalliferous Mining - Processing	Operate heat exchangers that form part of a heating, cooling or refrigeration system in a surface metalliferous mine Operate heat exchangers that form part of a heating, cooling or refrigeration system in a metalliferous mine	2	3	B
24476	Surface Metalliferous Mining Metalliferous Mining - Processing	Operate raw material feed systems in a surface metalliferous mine Operate raw material feed systems in a metalliferous mine	2	2 4	B
24477	Surface Metalliferous Mining Metalliferous Mining - Operations	Take samples and readings in a surface metalliferous mine Collect routine site samples in a metalliferous mine	2	2	B
24478	Surface Metalliferous Mining Metalliferous Mining - Processing	Prepare for metal casting, and cast ingots, in a surface metalliferous mine Prepare for metal casting, and cast ingots, in a metalliferous mine	3	3	B
24479	Surface Metalliferous Mining Metalliferous Mining - Processing	Conduct calcination activities in a surface metalliferous mine Conduct calcinations activities in a metalliferous mine	3	2	B
24480	Surface Metalliferous Mining Metalliferous Mining - Processing	Conduct electrowinning/electrorefining operations in a surface metalliferous mine Conduct electrowinning/electrorefining operations in a metalliferous mine	3	2 5	B

ID	Domain	Title	Level	Credit	Review Category
24481	Surface Metalliferous Mining Metalliferous Mining - Processing	Conduct elution processes in a surface metalliferous mine Conduct elution processes in a metalliferous mine	3	4 10	B
24482	Surface Metalliferous Mining Metalliferous Mining - Processing	Conduct gold room operations in a surface metalliferous mine Conduct gold room operations in a metalliferous mine	3	4 10	B
24483	Surface Metalliferous Mining Metalliferous Mining - Processing	Conduct leaching process in a surface metalliferous mine Conduct leaching process in a metalliferous mine	3	4 15	B
24484	Surface Metalliferous Mining Metalliferous Mining - Processing	Conduct milling/grinding in a surface metalliferous mine Conduct milling/grinding in a metalliferous mine	3	4 15	B
24485	Surface Metalliferous Mining Metalliferous Mining - Processing	Conduct thickening and clarifying process in a surface metalliferous mine Conduct thickening and clarifying process in a metalliferous mine	3	4 7	B
24486	Surface Metalliferous Mining Metalliferous Mining - Operations	Operate and monitor valve systems as part of a controlling process in a surface metalliferous mine Operate and monitor valve systems as part of a controlling process in a metalliferous mine	3	2 5	B
24487	Surface Metalliferous Mining Metalliferous Mining - Processing	Operate furnaces including equipment ancillary to the main furnace in a surface metalliferous mine Operate furnaces in a metalliferous mine	3	3	B
24489	Surface Metalliferous Mining	Work safely with instruments that emit ionising radiation in a surface metalliferous mine	3	8	D

ID	Domain	Title	Level	Credit	Review Category
24490	Surface Metalliferous Mining Metalliferous Mining - Operations	Manage plant shutdown and restart in a surface metalliferous mine Manage plant shutdown and restart in a metalliferous mine	4	6 10	B
24491	Surface Metalliferous Mining Underground Metalliferous Mining	Install and remove a secondary fan in an underground metalliferous mine	2 3	2 5	B

Engineering and Technology > Metalliferous Mining > Underground Metalliferous Mining

ID	Title	Level	Credit	Review Category
24492	Prepare and perform manual scaling operations in an underground metalliferous mine	2	2	B
24493	Refuel vehicles/machines in an underground metalliferous mine	2	2	B
24494	Conduct line of sight remote operations in an underground metalliferous mine	3	3	B
24495	Conduct mechanical scaling in an underground metalliferous mine	3	3	B
24496	Conduct tele-remote operations in an underground metalliferous mine	3	3 8	B
24497	Conduct underground development drilling in an underground metalliferous mine	3	3 10	B
24498	Construct and maintain underground roads in an underground metalliferous mine	3	4	B
24499	Install sets in an underground metalliferous mine	3	3 6	B