

Field Service Sector**Review of *Cranes* unit standards**

Subfield	Domain	ID
Cranes	Crane Operation	3787-3792, 3794, 3795, 3797, 3799-3801, 16617, 20208, 20209, 20525-20529, 20864, 20865, 23351, 24509-24511, 25737, 26505, 26590
	Crane Maintenance and Servicing	3802-3804, 3807, 3812, 3818
	Crane Inspection	3823

Opportunity – The Training Organisation (Opportunity Training) has completed the review of the unit standards listed above.

Date new versions published

March 2012

Planned review date

December 2016

Summary

The review commenced in May 2011 in response to standards scheduled for review, when the Industry Review Panel (the Panel) met to discuss changes in the crane industry since the last review, feedback from industry employers and assessors, and to consider reports from moderation detailing any issues around assessment of unit standards. The Panel was made up of representatives from crane sectors, assessors, and moderators.

The Panel had already commenced the mandatory review of cranes sector qualifications as part of the Targeted Review of Qualifications (TRoQ), immediately prior to the review of unit standards. The mandatory review discussions re-affirmed that high risk factors associated with the crane industry reinforce the need for standards that establish appropriate benchmarks for performance.

These risk factors were considered carefully during the review, and safety requirements detailed in the unit standards were closely checked and updated to ensure they met current industry practices.

All unit standards were considered in relation to the relevant role holder(s). Changes were proposed to ensure the unit standards were fit for purpose, and subsequently incorporated.

Consultation occurred through the Cranes Conference, the Opportunity Training website, and further consultation with industry.

The Cranes Conference, held in early July 2011, was an ideal opportunity to discuss the unit standard (and qualification) review process, and to present the updated unit standards in relation to the proposed new qualifications. Industry personnel reiterated at Conference, and through subsequent feedback, the importance of having trained crane operators who, when deemed competent, are able to operate safely in a range of dynamic crane scenarios.

Unit standards were placed on the Opportunity Training website and stakeholders notified of the opportunity to provide feedback.

Feedback from Conference, and through further consultation, indicated that assessment requirements for the unit standards that related to crane operation required changes to ensure that operators were able to deal with the demands of an actual workplace, and not a simulated workplace situation.

Further consultation and discussion with all stakeholders was carried out to ensure these assessment requirements met the needs of industry. The unit standards were then put on hold until the initial stages of the mandatory review were completed in late November 2011 to include any further changes as a result of the mandatory review.

Unit standards were endorsed by the Cranes Industry Review Panel prior to submission for evaluation and registration.

Main changes

- Unit standard 3797, which expired in December 2011, was reinstated as this outcome is being carried out more regularly and having a unit standard available provides minimum standards against which to carry out assessment.
- Expired unit standard 3818 was used as a basis for developing new standards 27674 and 27675. Unit standard 3818 had included climbing a tower crane, which is considered a specialist activity and was a barrier to completion of the entire unit standard for some candidates who were not able to gain sufficient workplace experience. By splitting the unit standard candidates are able to gain the experience for climbing a tower crane over a longer period of time than is required for erection and dismantling (unit standard 27674).
- Unit standards 20525 and 20526, which have had extensive usage since development, were identified as having overlapping content. They have therefore now been designated as expiring, and replaced by a single unit standard 27676.
- New unit standard 27671 was developed for operation of a telehandler.
- New unit standard 27672 was developed for cranes in free fall operation.
- The level has decreased from Level 5 to Level 3 for unit standard 3807, as it was previously incorrectly allocated.
- Level has increased from 2 to 3 for unit standard 3800 to better align with the level descriptors.
- Credits have decreased for unit standards 3788, 3792, and 20208 to more accurately reflect the time needed for learning and assessment.
- Credits have increased for unit standard 3797 to more accurately reflect the time needed for learning and assessment.

Category C unit standards will expire at the end of December 2013

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Domain	Crane Operation	2	Standard	3800	3

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 Opportunity Training qualifications are impacted by the outcome of this review. All the qualifications have been replaced in the TRoQ mandatory review process, which was carried out in 2011. The standards that generated the status *Affected* are listed in **bold**.

Ref	Qualification Title	ID
0116	National Certificate in Crane Operation with strands in Mobile Crane, Overhead Crane, Tower Crane, and Crawler Crane	3787, 3792 , 3794, 3795, 3800 , 3803, 20525 , 20526
0119	National Certificate in Cranes (Mobile Crane Dispatch Supervision) (Level 3)	3787, 3792
0120	National Certificate in Cranes (Tower Crane Supervision) (Level 5)	3787, 3803, 3807 , 3818
1097	National Certificate in Crane Operation (Piling and Foundation Operations)	20525 , 20526 , 20529
1520	National Certificate in Cranes (Advanced Crane Operation) (Level 5)	24509, 24510

The following table identifies qualifications developed by other SSBs that are affected by the outcome of this review process. The SSBs have been advised that the qualifications require revision.

Ref	Qualification Title	ID	SSB Name
1635	National Certificate in Precast Concrete (Level 3) with strands in Structural Precast, Prestressing, Precast Tank, and Traditional Tank	3800	Building and Construction Industry Training Organisation
1656	National Certificate in Concrete Product Manufacture (Pipe) (Level 3)	3800	
1581	National Certificate in Manufacturing (Core Skills) (Level 2)	3800	Competenz
1308	National Certificate in Wood Handling and Distribution (Level 3) with strands in Log Yard and Wood Preparation, and Timber Yarding and Despatch	3800	Forest Industries Training and Education Council (FITEC)
1174	National Certificate in Hot Dip Galvanizing (Introductory Skills) (Level 2)	3800	NZ Extractive Industries Training Organisation
1175	National Certificate in Hot Dip Galvanizing (Operations) (Level 3)	3800	
1284	National Certificate in Scrap Metal Recycling (Introductory Skills)	3800	
1285	National Certificate in Scrap Metal Recycling (Operations)	3800	

1347	National Certificate in Resource Recovery Operations (Level 3)	3800	
0566	National Certificate in Cablemaking (Level 2) with strands in Wiredrawing, Conductor Assembly, Extrusion, Cable Assembly, and Cable Testing	3800	Plastics and Materials Processing Industry Training Organisation Incorporated
0738	National Certificate in Cablemaking (Level 3) with strands in Wiredrawing, Conductor Assembly, Extrusion, Cable Assembly, and Cable Testing	3800	

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

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

Service Sector > Cranes > Crane Inspection

ID	Title	Level	Credit	Review Category
3823	Investigate and report a crane accident	6	20	B

Service Sector > Cranes > Crane Maintenance and Servicing

ID	Title	Level	Credit	Review Category
3802	Carry out periodic maintenance checks and servicing for overhead cranes	3	15	B
3803	Carry out periodic maintenance checks and servicing for tower cranes Carry out periodic maintenance checks and servicing for tower cranes or self-erecting tower cranes	3	15	B
3804	Carry out periodic maintenance checks and servicing for mobile cranes Carry out periodic maintenance checks and servicing for mobile cranes or track crawler cranes	3	15	B
3807	Plan and implement a maintenance schedule for tower cranes	5 3	5	B
3812	Diagnose and rectify mechanical faults in mobile cranes Diagnose and rectify mechanical faults in mobile cranes or track crawler cranes	5	15	B
3818 27674 27675	Erect, climb, and dismantle a tower crane Erect and dismantle a tower crane Climb a tower crane	5 5 5	25 20 5	C

Service Sector > Cranes > Crane Operation

ID	Title	Level	Credit	Review Category
3787	Demonstrate knowledge of regulatory requirements pertaining to cranes Demonstrate knowledge of regulatory requirements relating to cranes	2	4	B
3788	Demonstrate knowledge of skills required in the crane industry	3	8 4	B
3789	Sling regular loads and communicate during crane operations	3	22	B
3790	Operate a cab controlled overhead crane and lift and place loads	3	12	B
3791	Arrange delivery of tower crane to site	4	15	B
3792	Arrange delivery and move mobile crane and equipment to and from site	4	22 15	B
3794	Lift and place loads with tower crane Lift and place regular loads with tower crane	3	15	B
3795	Configure mobile crane and lift and place loads Configure and position a mobile crane and lift and place regular loads	4	22	B
3797	Dragline and/or dredge and/or clamshell using a mobile crane Dragline or clamshell using a track crawler crane	4	5 6	B
3799	Plan and direct complex lifting operations	5	25	B
3800	Operate a pendant controlled overhead crane and lift and place regular loads Operate a radio remote or pendant controlled overhead crane and lift and place regular loads	2 3	10	B
3801	Prepare and sling complex loads for crane operations	4	25	B
16617	Use a truck loader crane to lift and place loads	3	15	B
20208	Describe types of self-erecting tower cranes, and lift and place loads	3	15 12	B
20209	Erect, dismantle, and reconfigure a self-erecting tower crane	5	25	B
20525	Arrange delivery of a track crawler crane to and from site	4	15	C
20526	Configure a track crawler crane, and lift and place loads	4	22	C
27676	Configure a lattice boom track crawler crane, and lift and place regular loads	4	22	
20527	Prepare and use a crane with crane mounted drill table for piling and foundation operations	4	20	B
20528	Prepare and use a crane and vibro hammer machine for piling and foundation operations	4	12	B
20529	Prepare and use a crane with drop hammer, and leader for piling and foundation operations Prepare and use a crane with a fixed or hanging leader and hammer for piling and foundation operations	4	16	B

ID	Title	Level	Credit	Review Category
20864	Prepare for, and handle standard lift precast concrete elements during crane operations	4	16	B
20865	Prepare for, and handle non-standard lift and tilt up precast concrete elements during crane operations	5	16	B
23351	Describe, set up, and use, fall arrest and rescue systems in a tower crane environment	4	15	B
24509	Describe the preparation of, and set up and operate, a multi-winch crane during crane operations Describe the preparation of, set up, and simultaneously operate, a multi-winch crane during crane operations	4	6	B
24510	Prepare a lift plan, and lift loads using a crane working in tandem during crane operations Review a lift plan, and lift loads using a crane working in tandem during crane operations	4	4	B
24511	Configure a non-slewing articulated crane, and lift and place regular loads	3	16	B
25737	Prepare to use, and hook up, a crane with a crane-lifted work platform	5	4	B
26505	Use a mini-crawler crane to lift and place loads Use a mini-crawler crane with outriggers to lift and place regular loads	3	15	B
26590	Prepare to operate, and operate a hydraulic handi crane to lift, travel, and place loads	4	8	B
27671	Operate a telehandler configured as a crane, and lift and place suspended regular loads	3	16	New
27672	Prepare and use a crane in free fall operation	4	8	New