

Field Planning and Construction**Review of *Planning and Construction* unit standards**

| Subfield | Domain | ID |
|--------------------|---|--|
| Architecture | Architectural Technology | 10161-10167, 11286 |
| Quantity Surveying | Quantity Surveying Theory | 10039-10045 |
| Construction | Construction Health and Safety, and Injury Prevention | 14599 |
| | Construction Management | 9632, 9633, 9635-9637, 9639, 9640, 10925 |
| | Construction Technology | 9658-9661, 9663-9672 |

The Building and Construction Industry Training Organisation has completed the review of the unit standards listed above.

Date new versions published

March 2011

Planned review date

December 2015

Summary

These unit standards were reviewed as part of the scheduled review cycle for the Construction Management and Construction Technology domains, and to transfer standard-setting responsibility for the Architecture and Quantity Surveying subfields and associated unit standards and qualifications from InfraTrain NZ to the Building and Construction Industry Training Organisation.

Consultation took place from 2007, and consisted of Industry Working Party meetings comprised of representatives from InfraTrain, industry businesses, industry associations and providers associated with the Construction Management, Quantity Surveying and Architectural Technology industries and endorsed by the National Advisory Group for Design and Construction.

As considerable time had elapsed since the last review, the unit standards were updated to meet industry needs, which required substantial changes to content and credit values for some unit standards. Additionally, twelve unit standards were replaced, five unit standards were designated expiring without replacement and four new unit standards were developed.

Main changes

- Unit standards 10164-10167 and 11286 were reclassified from the following classification *Architecture > Architectural Technology* to *Construction > Architectural Technology*.
- Unit standards 10039 and 10042-10044 were reclassified from the following classification *Quantity Surveying > Quantity Surveying Theory* to *Construction > Quantity Surveying*.
- Unit standard 14599 was reclassified from the domain *Construction Health and Safety, and Injury Prevention* to *Construction Management*.

- Unit standards 9663, 9664, and 9667-9670 were reclassified from the domain *Construction Technology* to *Core Planning and Construction*.
- Twelve unit standards were replaced. Replacement relationships are as follows:
 - 9632-27153
 - 9658-27155
 - 9659-27146
 - 9671-27157
 - 9672-27158
 - 10040-27150
 - 10041-27151
 - 10045-27152
 - 10161-27147
 - 10162-27148
 - 10163-27149
 - 10925-27154
- Unit standards 9660, 9661, 9665, 9666 and 10042 will expire without replacement.
- New unit standards 27159, 27160, 27161 and 27162 were developed.
- The credit values for unit standards 9636, 9664, 9667, 10039, 10043, 10164-10166, and 11286 were adjusted to more accurately reflect learning and assessment time.

Category C and D unit standards will expire at the end of December 2014.

Impact on existing accreditations

| Current Accreditation for | | | Accreditation extended to | | |
|---------------------------|---|-------|---------------------------|--------------------------------|-------|
| Nature of accreditation | Classification or ID | Level | Nature of accreditation | Classification or ID | Level |
| Subfield | Architecture | 6 | Subfield | Construction | 6 |
| | | 7 | | | 7 |
| | | 8 | | | 8 |
| Subfield | Quantity Surveying | 5 | Subfield | Construction | 5 |
| | | 6 | | | 6 |
| Domain | Quantity Surveying Theory | 5 | Domain | Quantity Surveying | 5 |
| | | 6 | | | 6 |
| Domain | Construction Health and Safety, and Injury Prevention | 4 | Standard | 14599 | 4 |
| Domain | Construction Technology | 5 | Domain | Core Planning and Construction | 5 |
| | | 6 | | | 6 |
| | | 7 | | | 7 |
| Domain | Construction Technology | 4 | Standard | 27155 | 5 |
| | | 5 | | 27155, 27156 | 6 |
| Standard | 10040 | 6 | Standard | 27150 | 6 |
| Standard | 10161 | 5 | Standard | 27147 | 5 |
| Standard | 10162 | 5 | Standard | 27148 | 5 |
| Standard | 10163 | 6 | Standard | 27149 | 6 |
| Standard | 10925 | 5 | Standard | 27154 | 5 |

Impact on Accreditation and Moderation Action Plan (AMAP)

Unit standards 9658-9661, 10039-10045, 10161-10167, and 11286 have been transferred from AMAP 101 to AMAP 0048.

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 Building and Construction Industry Training Organisation qualifications are impacted by the outcome of this review and will be updated when they are reviewed in 2011. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

| Ref | Qualification Title | ID |
|------|---|--|
| 0356 | National Diploma in Construction Management (Level 6) | 9632 , 9633, 9635, 9636 , 9637, 9639, 9640, 9658 , 9659 , 9661 , 9663, 9664 , 9667, 9668-9670, 9671 , 9672 , 10925 , 14599, 10039 , 10042 |
| 1131 | National Certificate in Construction (Supervisor) (Level 5) | 10925 |

The following Infratrains qualifications are also impacted by the outcome of this review. The Building and Construction Industry Training Organisation has assumed responsibility for the development of these qualifications, and they are currently under review. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

| Ref | Qualification Title | ID |
|------|--|---|
| 0357 | National Diploma in Architectural Technology (Level 6) | 9659 , 9661 , 9663, 9664 , 9667, 9668-9670, 9671 , 9672 , 10161-10166 , 10167, 11286 |
| 0358 | National Diploma in Quantity Surveying (Level 6) | 9632 , 9633, 9635, 9636 , 9637, 9658 , 9663, 9664 , 9665 , 9667 , 9668-9670, 9671 , 9672 , 10039-10043 , 10044, 10045 |

The following table identifies qualifications developed by other SSBs that are impacted by the outcome of this review. The SSBs have been advised that the qualifications require revision. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

| Ref | Qualification Title | Classification or ID | SSB Name |
|------|---|---|--|
| 1061 | National Certificate in General Contracting (Training and Assessment) | Architecture, Construction, Quantity Surveying | InfraTrain NZ |
| 1264 | National Certificate in Roofing (Contract Supervisor) | 9639, 9664, 9665, 10039 , 14599 | Plumbing, Gasfitting and Drainlaying ITO Ltd |

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 |

Planning and Construction

| ID | Domain | Title | Level | Credit | Review Category |
|--------------|---|--|----------|----------------|-----------------|
| 9632 | Construction> Construction Management | Demonstrate the process of bidding for a construction project | 6 | 15 | C |
| 27153 | Construction> Construction Management | Demonstrate the process of contract selection and tendering for a medium building | 6 | 15 | |
| 9633 | Construction> Construction Management | Develop construction methodology for medium buildings Develop construction methodology for a medium building | 6 | 15 | B |
| 9635 | Construction> Construction Management | Produce a site specific quality assurance plan for implementation on a construction project | 5 | 5 | B |
| 9636 | Construction> Construction Management | Develop construction planning for medium buildings Develop construction planning for a medium building | 6 | 5 15 | B |

| ID | Domain | Title | Level | Credit | Review Category |
|---------------|--|--|--------|----------|-----------------|
| 9637 | Construction> Construction Management | Programme construction works for medium buildings Programme construction works for a medium building | 6 | 15 | B |
| 9639 | Construction> Construction Management | Demonstrate knowledge of construction site procedures Demonstrate knowledge of construction site procedures for a medium building | 6 | 5 | B |
| 9640 | Construction> Construction Management | Demonstrate knowledge of principles and processes of construction site management Demonstrate knowledge of principles and processes of construction site management for medium buildings | 6 | 10 | B |
| 9658 27155 | Construction> Construction Technology Quantity Surveying | Demonstrate knowledge of cost estimation processes for a building project Estimate costs for a small building project | 4 5 | 10 15 | C |
| 9659 27156 | Construction> Construction Technology Architectural Technology | Demonstrate knowledge of tendering processes for a building project Demonstrate the process of tendering and administering a construction project | 5 6 | 5 15 | C |
| 9660 | Construction> Construction Technology | Assess expenditure for a building project | 5 | 7 | D |
| 9661 | Construction> Construction Technology | Demonstrate knowledge of how to administer contracts and value building works | 5 | 10 | D |
| 9663 | Construction> Construction Technology Construction> Core Planning and Construction | Demonstrate knowledge of a feasibility study of a site Demonstrate knowledge of a research/feasibility study of a site | 5 | 5 | B |
| 9664 | Construction> Construction Technology Construction> Core Planning and Construction | Demonstrate knowledge of building law | 5 | 10 5 | B |

| ID | Domain | Title | Level | Credit | Review Category |
|-------------------|---|--|------------|--------------|-----------------|
| 9665 | Construction> Construction Technology | Monitor a building project | 5 | 5 | D |
| 9666 | Construction> Construction Technology | Contribute to the design process | 4 | 5 | D |
| 9667 | Construction> Construction Technology Construction> Core Planning and Construction | Apply principles from published data to the provision of services for small buildings Demonstrate knowledge of principles related to provision of services for small buildings | 5 | 10 5 | B |
| 9668 | Construction> Construction Technology Construction> Core Planning and Construction | Apply principles from published data to the provision of services for medium buildings Demonstrate knowledge of principles related to provision of services for medium and large buildings | 5 | 10 | B |
| 9669 | Construction> Construction Technology Construction> Core Planning and Construction | Apply principles from published data to evaluate and select materials and finishes for buildings Evaluate and select materials and finishes for buildings | 4 | 10 | B |
| 9670 | Construction> Construction Technology Construction> Core Planning and Construction | Identify environmental impacts, design, and construction techniques, on and of the built environment | 5 | 10 | B |
| 9671 27157 | Construction> Construction Technology Construction> Core Planning and Construction | Determine and describe construction methods for small buildings Determine and describe construction of small buildings | 5 5 | 15 20 | C |
| 9672 27158 | Construction> Construction Technology Construction> Core Planning and Construction | Determine and describe construction methods for medium and large buildings Determine and describe construction of medium and large buildings | 6 6 | 25 20 | C |

| ID | Domain | Title | Level | Credit | Review Category |
|-------|--|--|---------------|-----------------|-----------------|
| 10039 | Quantity Surveying > Quantity Surveying Theory Construction > Quantity Surveying | Measure schedules of quantities for selected trade sections for quantity surveying Measure schedules of quantities for specific trade sections for small buildings | 5 | 15 20 | B |
| 10040 | Quantity Surveying > Quantity Surveying Theory Construction > Quantity Surveying | Measure schedules of quantities for advanced trade sections for quantity surveying Measure schedules of quantities for specialist trade sections for quantity surveying | 6 6 | 25 25 | C |
| 10041 | Quantity Surveying > Quantity Surveying Theory Construction > Quantity Surveying | Estimate costs for quantity surveying Estimate costs for medium or large building projects | 5 5 | 15 10 | C |
| 10042 | Quantity Surveying > Quantity Surveying Theory | Negotiate and apply specified types of contracts to tendering situations for quantity surveying | 5 | 10 | D |
| 10043 | Quantity Surveying > Quantity Surveying Theory Construction > Quantity Surveying | Complete preliminary estimates and cost plans for a construction project for quantity surveying Complete preliminary estimates and cost plans for medium and large building projects | 6 | 10 15 | B |
| 10044 | Quantity Surveying > Quantity Surveying Theory Construction > Quantity Surveying | Administer contracts and value building works for quantity surveying Administer contracts and value building works | 6 | 15 | B |

| ID | Domain | Title | Level | Credit | Review Category |
|--------------|---|---|----------|-----------|-----------------|
| 10045 | Quantity Surveying > Quantity Surveying Theory | Evaluate and prepare a construction programme for quantity surveying | 5 | 5 | C |
| 27152 | Construction > Quantity Surveying | Prepare and interpret construction programmes for quantity surveying | 4 | 5 | |
| 10161 | Architecture > Architectural Technology | Establish the conditions for writing a design brief for a building project | 5 | 5 | C |
| 27147 | Construction > Architectural Technology | Establish the requirements for a design brief, and write a design brief for a building project | 5 | 10 | |
| 10162 | Architecture > Architectural Technology | Contribute to preparation of, and present, a preliminary architectural design from a given concept | 5 | 10 | C |
| 27148 | Construction > Architectural Technology | Develop a concept and preliminary architectural design from a given brief | 5 | 15 | |
| 10163 | Architecture > Architectural Technology | Prepare a developed building design from a given preliminary design | 6 | 10 | C |
| 27149 | Construction > Architectural Technology | Prepare a developed building design from a preliminary design | 6 | 10 | |
| 10164 | Architecture > Architectural Technology | Prepare architectural working drawings for small buildings | 5 | 45 | B |
| | Construction > Architectural Technology | | | 30 | |
| 10165 | Architecture > Architectural Technology | Prepare architectural working drawings for medium buildings | 6 | 40 | B |
| | Construction > Architectural Technology | | | 35 | |
| 10166 | Architecture > Architectural Technology | Prepare architectural working drawings for large buildings | 6 | 30 | B |
| | Construction > Architectural Technology | | | 35 | |

| ID | Domain | Title | Level | Credit | Review Category |
|-------|--|---|-------|---------|-----------------|
| 10167 | Architecture > Architectural Technology Construction> Architectural Technology | Evaluate the principles of architectural design | 6 | 15 | B |
| 10925 | Construction > Construction Management | Demonstrate knowledge of survey requirements for the setout of medium buildings | 5 | 5 | D |
| 11286 | Architecture > Architectural Technology Construction> Architectural Technology | Demonstrate knowledge of the principles of ethics as they apply to the architectural process | 6 | 10 5 | B |
| 14599 | Construction > Construction Health and Safety, and Injury Prevention Construction> Construction Management | Produce a site specific safety plan and strategy for implementation on construction sites Produce a site specific safety plan and strategy for its implementation for a medium building | 4 | 5 | B |
| 27159 | Construction > Architectural Technology | Demonstrate knowledge of and create technical drawings for design and construction | 3 | 15 | New |
| 27160 | Construction > Core Planning and Construction | Demonstrate knowledge of roles and documentation, and communicate, within the construction industry | 3 | 10 | New |
| 27161 | Construction > Core Planning and Construction | Demonstrate knowledge of structural principles for building work | 3 | 3 | New |
| 27162 | Construction > Core Planning and Construction | Demonstrate knowledge of and create technical sketches for construction | 3 | 3 | New |