

## Field      Manufacturing

### Review, and Rollover and Revision of *Boating Industries* and *Composites* unit standards

| Subfield           | Domain                         | ID  |
|--------------------|--------------------------------|---|
| Boating Industries | Boatbuilding                   | 9930, 9935-9938, 18169, 23037, 25153  |
|                    | Marina Operations and Services | 27244-27246, 27250-27252  |
|                    | Marine Sales and Services      | <b>9913, 9914, 9919, 11746-11763, 11765-11775, 18167, 18269, 18270, 25353-25360</b> |
| Composites         | Industrial Composites          | 3174-3176, 3178   |
|                    | Production Composites          | 3170, 26563   |

The NZ Marine and Composites Industry Training Organisation (NZMAC ITO) has completed the review, and rollover and revision of the unit standards listed above. The unit standards in **bold** were rolled over and revised only.

#### Date new versions published

**May 2018**

#### Planned review date (reviewed standards)

**December 2023**

#### Planned review date (rolled over and revised standards)

**December 2020**

#### Summary

NZMAC ITO carried out a review to better align these unit standards to the graduate profile outcomes of the New Zealand qualifications relating to the marine industry, and also to reflect the new health and safety legislation. Industry and subject matter experts provided feedback and input into the review of these unit standards.

#### Main changes

- Credits increased for unit standards 27244 and 27251 to better reflect the learning and assessment time involved.
- The level of unit standard 9938 increased to better represent the level of the outcomes.
- Content of the unit standards and titles were updated to better reflect the standard outcomes.
- Guidance information was updated to reflect the changes in legislation.
- Unit standard 23037 was designated expiring and replaced by new standard 31196.
- Unit standards in the *Marine Sales and Services* domain listed above were revised to update legislation and references. They were also rolled over until December 2020.

#### The Category C unit standard will expire at the end of December 2020

**The last date for assessment of superseded versions of Category B unit standards is December 2020**

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

All changes are in **bold**.

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

### **Reviewed unit standards**

#### Manufacturing > Boating Industries > Boatbuilding

| <b>ID</b>    | <b>Title</b>   | <b>Level</b> | <b>Credit</b> | <b>Review Category</b> |
|--------------|--|--------------|---------------|------------------------|
| 9930         | Plank a boat framework   | 4            | 20            | B                      |
| 9935         | Construct interior boat cabinetry in timber  | 4            | 20            | B                      |
| 9936         | Construct exterior boat joinery in timber  | 4            | 20            | B                      |
| 9937         | Install interior and exterior boat systems   | 4            | 10            | B                      |
| 9938         | Install pipework in boats<br><b>Explain and install pipework in boats</b>  | 3<br>4       | 15            | B                      |
| 18169        | Laminate and join timber materials used in boatbuilding<br><b>Laminate and join timber in the marine industry</b>  | 3            | 4             | B                      |
| 23037        | Demonstrate knowledge of traditional wooden boatbuilding   | 3            | 10            | C                      |
| <b>31196</b> | <b>Demonstrate knowledge of maintenance and repair methods of wooden boats</b>   | <b>3</b>     | <b>5</b>      |                        |
| 25153        | Describe computerised manufacturing processes used in boatbuilding<br><b>Explain computerised manufacturing processes used in the marine or composite industry</b> | 4            | 3             | B                      |

#### Manufacturing > Boating Industries > Marina Operations and Services

| <b>ID</b> | <b>Title</b>   | <b>Level</b> | <b>Credit</b> | <b>Review Category</b> |
|-----------|--|--------------|---------------|------------------------|
| 27244     | Demonstrate knowledge of marina operation<br><b>Demonstrate knowledge of marina operations</b>   | 2            | 3<br>5        | B                      |
| 27245     | Explain electrical regulations relevant to marina operation  | 2            | 5             | B                      |
| 27246     | Demonstrate knowledge of environmental protection practices for marina operation<br><b>Demonstrate knowledge of environmental protection practices for marina operations</b> | 3            | 5             | B                      |
| 27250     | Demonstrate knowledge of marina security requirements and procedures   | 3            | 4             | B                      |
| 27251     | Demonstrate and apply knowledge of marina berth administration   | 3            | 3<br>5        | B                      |
| 27252     | Demonstrate knowledge of boat fire response in marinas<br><b>Demonstrate knowledge of fire response in marinas</b>   | 3            | 3             | B                      |

#### Manufacturing > Composites > Industrial Composites

| <b>ID</b> | <b>Title</b>                                   | <b>Level</b> | <b>Credit</b> | <b>Review Category</b> |
|-----------|--|--------------|---------------|------------------------|
| 3174      | Produce a composite item by hot press moulding | 4            | 7             | B                      |
| 3175      | Produce a composite item by pultrusion         | 4            | 7             | B                      |
| 3176      | Produce a composite item by filament winding   | 4            | 7             | B                      |

| ID   | Title  | Level | Credit | Review Category |
|------|--|-------|--------|-----------------|
| 3178 | Produce a composite item by mechanised continuous lamination | 4     | 7      | B               |

Manufacturing > Composites > Production Composites

| ID    | Title   | Level | Credit | Review Category |
|-------|---|-------|--------|-----------------|
| 3170  | Produce a laminate by vacuum bagging for composites<br><b>Produce a composite laminate by vacuum bagging</b>                                    | 4     | 2      | B               |
| 26563 | Produce an item by resin transfer moulding (RTM) light for composites<br><b>Produce a composite item by resin transfer moulding (RTM) light</b> | 4     | 5      | B               |