

## Field      Planning and Construction

### Review of *Core Plumbing, Gasfitting and Drainlaying* unit standards

| Subfield                             | Domain                                     | ID  |
|--------------------------------------|--|---|
| Plumbing, Gasfitting and Drainlaying | Core Plumbing, Gasfitting, and Drainlaying | 21881, 21883, 25413, 30526, 30532, 30533, 30536, 30537, 30557, 30575, 30597, 30602, 30616 |

Waihangā Ara Rau Construction and Infrastructure Workforce Development Council has completed the review of the unit standards listed above.

**Date new versions published**

**30 May 2024**

**Planned review date**

**31 December 2029**

### Summary

Waihangā Ara Rau Construction and Infrastructure Workforce Development Council initiated a review of unit standards in the Core Plumbing, Gasfitting and Drainlaying domain. This review was triggered by the regular 5-year review cycle.

The unit standards in this application have been reviewed to update them in line with current industry practice, and to ensure they are fit for purpose.

A series of Technical Advisory Group (TAG) meetings were held between November 2022 and November 2023 to complete this review. The Technical Advisory Group consisted of industry and provider representatives with consent to assess, and representatives from industry stakeholder organisations including the Plumbing, Gasfitting, and Drainlaying Board and the Ministry of Business, Innovation and Employment.

Following the review public consultation was held in November and December 2023. Feedback received was reviewed and decisions were made in consultation with the TAG group representatives resulting in the changes below.

There were no objections to one unit standard being expired with a replacement, and one unit standard being expired without replacement.

### Main changes

- Titles, guidance information, legislation, performance criteria and range statements were amended across the suite of unit standards to reflect the content and scope of the work, and in line with current industry practice and unit standard template requirements.
- Minor wording changes were made across the suite for clarity.
- Unit standard 30536 was replaced by unit standard 33331. The credit value of the new unit standard is 8 credits. The rationale for this was the addition of a new outcome for knowledge of compliance methods, requiring additional learning and assessment than previously required in unit standard 30536.
- Unit standard 30602 was designated as expiring as this is no longer required by industry. The rationale is that solar water heating systems are covered by unit standard 30610.
- Unit standard 21881 was increased to 3 credits to reflect the notional hours required to complete training and assessment.
- Unit standards 30537, 30557, and 30575 titles were changed to reflect the outcomes more accurately.

Category C and D unit standards will expire at the end of December 2028.

The last date for assessment of superseded versions of Category B unit standards is 31 December 2028.

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

All changes are in **bold**.

| Key to review category |   |
|------------------------|---|
| <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  |

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Core Plumbing, Gasfitting and Drainlaying

| ID           | Title  | Level    | Credit        | Review Category |
|--------------|--|----------|---------------|-----------------|
| 21881        | Describe ethical and legal considerations for plumbing, gasfitting, or drainlaying services  | 2        | 2<br><b>3</b> | B               |
| 21883        | Demonstrate knowledge of working in gas contaminated environments in plumbing, gasfitting, or drainlaying  | 2        | 3             | B               |
| 25413        | Draw and form simple patterns for plumbing and gasfitting sheet metal components<br><b>Draw and form simple patterns for plumbing or gasfitting sheet metal components</b>   | 2        | 3             | B               |
| 30526        | Demonstrate knowledge of interpreting job documentation for plumbing, gasfitting, or drainlaying jobs  | 4        | 10            | B               |
| 30532        | Demonstrate knowledge of excavating and trenching for plumbing, gasfitting, or drainlaying   | 3        | 5             | B               |
| 30533        | Position, excavate, and backfill excavations and trenches for plumbing, gasfitting, or drainlaying   | 3        | 4             | B               |
| 30536        | Demonstrate knowledge of the regulatory framework for plumbing, gasfitting, and drainlaying  | 4        | 5             | C               |
| <b>33331</b> | <b>Demonstrate knowledge of the regulatory framework and compliance methods for plumbing, gasfitting, and drainlaying</b>  | <b>4</b> | <b>8</b>      |                 |
| 30537        | Work in plumbing, gasfitting, or drainlaying with consideration of other trades and services<br><b>Demonstrate knowledge of working in plumbing, gasfitting, or drainlaying on a worksite with other trades and services</b>   | 4        | 5             | B               |
| 30557        | Select, describe, use, and maintain tools for plumbing or drainlaying projects   | 2        | 4             | B               |
| 30575        | Demonstrate knowledge of maintaining structural integrity and weather tightness of building penetrations<br><b>Describe the requirements for maintaining building integrity and weather tightness of building penetrations</b> | 4        | 8             | B               |
| 30597        | Demonstrate knowledge of the installation and maintenance of ducting systems for warm air heating  | 3        | 3             | B               |

| ID    | Title  | Level | Credit | Review Category |
|-------|--|-------|--------|-----------------|
| 30602 | Demonstrate knowledge of gas boosted solar water heating systems and hydronic heating  | 4     | 4      | D               |
| 30616 | Demonstrate knowledge of water, material properties, and of less frequently used materials in plumbing and drainlaying<br><b>Describe water, material considerations, and less frequently used materials in plumbing and drainlaying</b> | 3     | 3      | B               |