VCE VET Engineering: Guide to transition arrangements 2018

Introduction

The VCE VET Engineering program drawn from the 22209VIC Certificate II in Engineering Studies expired on 30 June 2018. The replacement qualification is the 22470VIC Certificate II in Engineering Studies, which is not equivalent to the 22209VIC certificate. All new enrolments must transition to the 22470VIC Certificate II in Engineering Studies by 2019. A revised VCE VET Engineering program based on this new qualification was introduced in July 2018.

Continuing students

Students who commenced VCE VET Engineering in 2017 or earlier and who are continuing into the second year of the program in 2018, particularly those who are undertaking the program’s scored Units 3–4 sequence, should continue to be enrolled in 22209VIC Certificate II in Engineering Studies.

Students commencing in 2018

Schools with first year students enrolled in the 22209VIC certificate will be requested to move these enrolments to the 22470VIC certificate.

Schools should consult with their registered training organisation partners to ensure that the new qualification will be added to scope for delivery in 2018.

For students who have commenced 22209VIC Certificate II in Engineering Studies in 2018 and are transitioning in July, the following advice applies.

Equivalent units of competency

The following units of competency (UoCs) from 22209VIC Certificate II in Engineering Studies are equivalent with UoCs from 22470VIC Certificate II in Engineering Studies.

| 22209VIC Certificate II in Engineering Studies (OLD) | | 22470VIC Certificate II in Engineering Studies (NEW) | |
| --- | --- | --- | --- |
| Unit code | Unit title | Unit code | Unit title |
| MEM13014A | Apply principles of Occupational Health & Safety in work environment | MEM13014A | Apply principles of Occupational Health & Safety in work environment |
| MEM18001C | Use hand tools | MEM18001C | Use hand tools |
| MEM18002B | Use power tools/hand held operations | MEM18002B | Use power tools/hand held operations |
| MEM30011A | Set up basic pneumatic circuits | MEM30011A | Set up basic pneumatic circuits |
| VU20903 | Produce basic engineering components and products using fabrication and machining | VU22334 | Produce basic engineering components and products using fabrication and machining operations |
| VU20904 | Perform cutting, grinding and turning operations | VU22335 | Perform metal machining operations |
| VU20906 | Configure and program a basic robotic system | VU22338 | Configure and program a basic robotic system |
| VU20910 | Produce basic engineering sketches and drawings | VU22330 | Select and interpret drawings and prepare three dimensional (3D) sketches and drawings |
| VU20914 | Form, bend and shape engineering materials | VU22336 | Perform metal fabrication operations |
| VU20915 | Perform basic welding and thermal cutting processes to fabricate engineering structures | VU22337 | Perform basic welding and thermal cutting processes to fabricate engineering structures |
| VU20916 | Create engineering drawings using computer aided systems | VU22339 | Create engineering drawings using computer aided systems |

Non-equivalent units of competency

The following units of competency (UoCs) from 22209VIC Certificate II in Engineering Studies are not equivalent with UoCs from 22470VIC Certificate II in Engineering Studies but require some similar knowledge and therefore may require GAP training.

Perform basic machining processes

| VU20912 Perform basic machining processes  (in 22209VIC Certificate II in Engineering Studies) | VU22331 Perform basic machining processes  (in 22470VIC Certificate II in Engineering Studies) |
| --- | --- |
| This unit of competency sets out the knowledge and skills required to undertake basic machining operations under supervision.  This involves setting up and machining components by using lathes, milling machines, cut off saws, pedestal grinders and fixed position drilling machines. Marking out skills are also included as necessary in the machining process. | This unit of competency describes the knowledge and skills required to perform basic machining operations. The unit includes setting up and machining components using various machinery such as; lathes, milling machines, cut off saws, pedestal grinders and fixed position drilling machines.  This unit also includes performing basic computations related to machining processes. |
| **Elements**   1. Plan and set up machining operations 2. Conduct machining operations 3. Complete work requirements | **Elements**   1. Plan and set up machining operations 2. Perform calculations 3. Conduct machining operations 4. Complete work requirements |
| **Critical Aspects of Assessment and Evidence**  The evidence on which competency in this unit is deemed should demonstrate consistent performance.  A representative body of performance criteria demonstrated within the timeframes typically expected of the discipline, work function and industrial environment.  In particular this shall incorporate evidence that shows a candidate is able to:   * Implement Occupational Health and Safety workplace procedures and practices including the use of risk control measures as specified in the performance criteria and range; and * Demonstrate essential knowledge and associated skills; and * Demonstrate an appropriate level of skills enabling employment. | **Critical Aspects of Assessment and Evidence**  To be considered competent in this unit assessors must be satisfied the candidate can demonstrate the achievement of all of the elements of the competency to the level defined by the associated performance criteria.  Specifically they must be able to demonstrate the ability to:   * perform basic computations related to machining operations on at least five (5) occasions * plan and safely set up for basic machining tasks on at least two (2) differerent types of machines * perform basic machining operations in accordance with job requirements on at least two (2) occasions * apply workplace cleaning and waste disposal procedures at all times. |

Apply basic fabrication techniques

| VU20913 Apply basic fabrication techniques  (in 22209VIC Certificate II in Engineering Studies) | VU22332 Apply basic fabrication techniques  (22470VIC Certificate II in Engineering Studies) |
| --- | --- |
| This unit of competency sets out the knowledge and skills required to perform basic fabrication tasks under supervision.  This involves using appropriate machinery and applying associated fabrication and assembly techniques to the fabrications process. | This unit of competency describes the knowledge and skills required to perform basic fabrication tasks.  The unit includes setting up and operating machinery used for fabrication processes and assembly techniques.  This unit also includes carrying out basic computations and marking out skills related to fabrication techniques. |
| **Elements**   1. Plan and set up fabrication operations 2. Conduct fabrication operations 3. Complete work requirements | **Elements**   1. Plan and set up fabrication operations 2. Perform calculations 3. Conduct fabrication operations 4. Complete work requirements |
| **Critical Aspects of Assessment and Evidence**  The evidence on which competency in this unit is deemed should demonstrate consistence performance.  A representative body of performance criteria demonstrated within the timeframes typically expected of the discipline, work function and industrial environment.  In particular this shall incorporate evidence that shows a candidate is able to:   * Implement Occupational Health and Safety workplace procedures and practices including the use of risk control measures as specified in the performance criteria and range; and * Demonstrate essential knowledge and associated skills as described in this unit; and * Demonstrate an appropriate level of skills enabling employment. | **Critical Aspects of Assessment and Evidence**  To be considered competent in this unit assessors must be satisfied the candidate can demonstrate the achievement of all of the elements of the competency to the level defined by the associated performance criteria  Specifically they must be able to demonstrate the ability to:   * perform basic computations and marking out skills related to fabrication tasks on at least five (5) occasions * plan and set up for fabrication tasks using at least three (3) different types of equipment * perform safely a least three (3) fabrication operations in accordance with job requirements * apply workplace cleaning and waste disposal procedures at all times. |

Note

‘Basic computations’ has been added to the requirements of both *VU22331 Perform basic machining processes* and *VU22332 Apply basic fabrication techniques*. This was previously undertaken as a separate UoC: *MEM12024A Perform computations*, which is no longer included in the qualification.