PART A – SkillsPoint Product Information

Master Product Information

**RTO Code:** **90003**

**Training Product Code:** **MEM30305**

**Release no.** **4**

**Training Product Name:** **Certificate III in Engineering - Fabrication Trade**

**Status of Training Product:** Current

**Release Date:** **16/03/2012**

**Category of Product:**  Nationally Recognised Qualification

Accredited Course

Skill Set

Statement of Attainment

Non Nationally Recognised

**SkillsPoint Details**

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**SkillsPoint Project Identifier: MRS\_18\_04\_MEM30305**

Master Delivery Information

**Specialist Stream or Industry Identified Stream contained in this TAS:**

**Fabrication Trade/ Fabrication Trade Boiler Making Specialisation**

**Target Student Group Category:**  Pre-employment

Apprentices/Trainees

International Students

Existing Workers

Other (Please specify):

**Mode(s) of Delivery:**  Face to Face Learning

Workplace Training

Online Learning

Blended

Other:

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1. Training Product Overview

### 1.1 Training Product Requirements

**Link to Training Product on**[TGA](http://www.training.gov.au/)**:** **<https://training.gov.au/Training/Details/MEM30305>**

**Number of Core Units: 12**

**Number of Elective Units/Points:** **74 Points**

**Total Number of Units: 33**

**Packaging Rules:**

The minimum requirements for achievement of the Certificate III in Engineering - Fabrication Trade are:

Completion of all core units of competency listed below, and

Completion of Group A Fabrication stream units listed below to the value of at least 40 points, and

Completion of units from Group B Certificate III Trade specialisation units listed in Appendix 1, Volume 1 of the Training Package, to bring the total value to at least 73 points

Points associated with prerequisites count towards the total (refer to units and prerequisites listing in Appendix 2, Volume 1).

Appropriate Group B elective units to the value of 16 points may be chosen from other endorsed Training Packages and accredited courses where those units are available for inclusion at Certificate III. Note that the elective units listed below include all of the units that are approved for selection from the MEM Training Package for use in this qualification. This meets the NQC requirement that one sixth of the total units must be able to be selected from other qualifications in the same Training Package.

Registered Training Organisations must seek a determination from Manufacturing Skills Australia in respect of the allocation of points values for units of competency drawn from other Training Packages or accredited courses.

Only select units that would be suitable for Fabrication Trade occupational outcomes.

### 1.2 Licensing and/or Regulatory Requirements

There are no specific licences that relate to this qualification. However, some units in this qualification may relate to licensing or regulatory requirements. Where appropriate electives are taken these can also be used to satisfy regulations regarding refrigeration and air conditioning work. Local regulations should be checked for details.

### 1.3 Qualification Description

This qualification covers the skills and knowledge required for employment as an Engineering Tradesperson - Fabrication within the metal, engineering, manufacturing and associated industries or other industries where Engineering Tradespersons - Fabrication work. The qualification has been specifically developed to meet the needs of apprentices in the above trade. The qualification packaging has been developed on an assumption that competency will be developed through an integrated combination of on and off-the-job learning strategies such as those delivered through a formal apprenticeship. The qualification may also be achieved through formal skills recognition assessment processes.

***Job roles/employment outcomes***

The Certificate III in Engineering - Fabrication Trade specifies the competencies required for employment as an Engineering Tradesperson - Fabrication including metal fabrication, forging, founding, structural steel erection, electroplating, metal spinning, metal polishing, sheet metal work, welding and the use of related computer controlled equipment.

Employment outcomes related to this qualification are found in a wide variety of manufacturing and engineering related sectors as well as Engineering Tradesperson - Fabrication roles in other industries.

***Application***

This qualification is designed to provide an industry recognised skills profile related to trade work as an Engineering Tradesperson - Fabrication. Skills development would usually be undertaken through an Australian Apprenticeship arrangement where the mix of on and off-the-job training would be specified in the Training Plan associated with the Contract of Training between the employer and apprentice.

Assessment of some units of competency must, where indicated, include evidence of the candidate's performance in a productive work environment where there is a sufficient range of appropriate tasks and materials to cover the scope of application of those units. All outcomes must reflect the standard of performance inherent in the job.

Occupational titles that this qualification is suitable for may vary and include metal fabrication tradesperson, boilermaker, 1st class sheet metal worker, 1st class welder, moulder, foundry tradesperson and patternmaker.

### 1.4 Pathways

**Study Pathways**

The study pathways available to students who undertake this Specialist Stream or Industry Identified Stream include:

The study pathways available to learners who undertake this qualification include:

•MEM40105 Certificate IV in Engineering

•MEM50105 Diploma of Engineering – Advanced Trade

•MEM50212 Diploma of Engineering – Technical

•MEM60112 Advanced Diploma of Engineering

**Employment Pathways**

The employment pathways available to students who complete this Specialist Stream or Industry Identified Stream include:

**Boiler Maker**

### 1.5 Entry Requirements

The following **Training Package** entry requirements exist for this course:

**Pathways into the qualification**

There is no qualification entry requirement. It is assumed that the learner is engaged as an apprentice under a Training Contract and that the learner is receiving appropriate structured on the job training while undertaking this qualification.

This qualification may be accessed by direct entry. Credit for relevant units of competency achieved should be granted towards this qualification for those who have completed MEM10105 Certificate I in Engineering, MEM10205 Certificate I in Boating Services, MEM20105 Certificate II in Engineering, MEM20205 Certificate II in Engineering - Production Technology or other relevant qualifications. Credit towards this qualification may also include units of competency contained within relevant pre-vocational and pre-apprenticeship programs and Statements of Attainment.

**Pathways from the qualification**

Further training pathways from this qualification include MEM40105 Certificate IV in Engineering and MEM50105 Diploma of Engineering - Advanced Trade or other relevant qualifications.

**Additional qualification advice**

An additional descriptor may be added to this qualification to illustrate a particular skill focus or trade discipline.

This could be achieved by adding a pathway descriptor or sentence below the formal title of the qualification. Note that no changes may be made to the qualification title and the use of one of these descriptors to a qualification does not change the qualification's formal title or unique national code.

There are no specific requirements associated with the use of these descriptors other than their use should reflect the nature of the choice of units of competency in the qualification and must be consistent with the work role of an Engineering Tradesperson - Fabrication.

Reference to other occupational or functional pathways consistent with the role of an Engineering Tradesperson - Fabrication may be included on any qualification statement that is issued.

Competitive Manufacturing qualifications are available for employees at this level who already possess trade and other technical skills and who require additional manufacturing practice skills above those available in this qualification.

### 1.6 Exit Points

Students can be awarded a Statement of Attainment for units successfully completed

### 1.7 Units of Competency

Consistent with the qualification packaging rules, the units listed below will be delivered and assessed for this training product:

#### Core Units

Table 1 Core Units

| **No.** | **Unit Code and Unit Title** | **Unit Type and Additional Notes** |
| --- | --- | --- |
|  | MEM12023A Perform engineering measurements |  |
|  | MEM12024A Perform computations |  |
|  | MEM13014A Apply principles of occupational health and safety in the work environment |  |
|  | MEM14004A Plan to undertake a routine task |  |
|  | MEM14005A Plan a complete activity |  |
|  | MEM15002A Apply quality systems |  |
|  | MEM15024A Apply quality procedures |  |
|  | MEM16006A Organise and communicate information |  |
|  | MEM16007A Work with others in a manufacturing, engineering or related environment |  |
|  | MEM16008A Interact with computing technology |  |
|  | MEM17003A Assist in the provision of on the job training |  |
|  | MSAENV272B Participate in environmentally sustainable work practices |  |

#### Elective Units

Table 2 Elective Units

| **No.** | **Unit Code and Unit Title** | **Unit Type and Additional Notes** | **Packaging Rules**  *(Grouping, Hours and Points, where applicable)* |
| --- | --- | --- | --- |
| **1** | MEM05005B – Carry out mechanical cutting | ***MEM05 Prerequisites***  MEM12023A Perform engineering measurements  MEM18001C Use hand tools | Group A, 2 Points |
| **2** | MEM05007C – Perform manual heating and thermal cutting |  | Group A, 2 Points |
| **3** | MEM05009C – Perform automated thermal cutting | ***MEM05 Prerequisites***  MEM12023A Perform engineering measurements | Group A, 2 Points |
| **4** | MEM05010C – Apply fabrication, forming and shaping techniques | ***MEM05 Prerequisites***  MEM05037C Perform geometric development  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM12024A Perform computations  MEM18001C use hand tools | Group A, 8 Points |
| **5** | MEM05011D – Assemble fabricated components | ***MEM05 Prerequisites***  MEM05005B Carry out mechanical cutting  MEM05007C Perform manual heating and thermal cutting  MEM05012C Perform routine manual metal arc welding  MEM05015D Weld using manual metal arc welding processes  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Group A, 8 Points |
| **6** | MEM05012C – Perform routine manual metal arc welding |  | Group A, 2 Points |
| **7** | MEM05015D – Weld using manual metal arc welding process | ***MEM05 Prerequisites***  MEM05012C Perform routine manual metal arc welding  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Group A, 4 Points |
| **8** | MEM05017D – Weld using gas metal arc welding process | ***MEM05 Prerequisites***  MEM05050B Perform routine gas metal arc welding  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Group A, 4 Points |
| **9** | MEM05018C – Perform advanced welding using gas metal arc welding process | ***MEM05 Prerequisites***  MEM05007C Perform manual heating and thermal cutting  MEM05017D Weld using gas metal arc welding process  MEM05050B Perform routine gas metal arc welding  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Group A, 4 Points |
| **10** | MEM05019D – Weld using gas tungsten arc welding process | ***MEM05 Prerequisites***  MEM05049B Perform routine gas tungsten arc welding  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Group A, 4 Points |
| **11** | MEM05036C – Repair/replace/modify fabrications | ***MEM05 Prerequisites***  MEM05005B Carry out mechanical cutting  MEM05007C Perform manual heating and thermal cutting  MEM05011D Assemble fabricated components  MEM05012C Perform routine manual metal arc welding  MEM05015D Weld using manual metal arc welding processes  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Group A, 4 Points |
| **12** | MEM05037C – Perform geometric development | ***MEM05 Prerequisites***  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM12024A Perform computations | Group A, 6 Points |
| **13** | MEM05049B – Perform routine gas tungsten arc welding |  | Group A, 2 Points |
| **14** | MEM05050B – Perform routine gas metal arc welding |  | Group A, 2 Points |
| **15** | MEM05051A – Select welding processes |  | Group A, 2 Points |
| **16** | MEM05052A – Apply safe welding practices |  | Group A, 4 Points |
| **17** | MEM09002B – Interpret technical drawing |  | Group A, 4 Points |
| **18** | MEM11011B - Undertake manual handling |  | Group B, 2 Points |
| **19** | MEM12007D – Mark off/out structural fabrications and shapes | ***MEM05 Prerequisites***  MEM12023A Perform engineering measurement | Group A, 4 Points |
| **20** | MEM18001C – Use hand tools |  | Group A, 2 Points |
| **21** | MEM18002B – Use power tools/hand held operations |  | Group A, 2 Points |

### 1.8 Imported Units

Details of electives imported from another Training Package or accredited course.

Table 4 Imported Electives

| **No.** | **Unit Code** a**nd Unit Title** | **Release version #** | **Status** | **Release Date** | **SkillsPoint** |
| --- | --- | --- | --- | --- | --- |
| **1** | N/A |  |  |  |  |
| **2** |  |  |  |  |  |
| **3** |  |  |  |  |  |
| **4** |  |  |  |  |  |
| **5** |  |  |  |  |  |
| **6** |  |  |  |  |  |

2. Additional Information

### 2.1 Environment and Location

The **simulated** work environment will be achieved by:

Students may demonstrate skills and performance evidence requirements in a simulated environment at a TAFE campus that is reflective of industry standards and activities. The simulated work environment will provide students with access to industry standard machinery, tooling and associated machinery to gain a real-world experience that aligns with their job role.

**Work placement** will be achieved by:

**Detail: N/A**

**Eligibility for work placement:**

**Total Work Placement Hours:**

### 2.2 Language, Literacy and Numeracy

Based on the Australian Core Skills Framework ([ACSF](https://www.education.gov.au/download-acsf)), please indicate which performance levels students are expected to be at the commencement of the course for each of the core skills listed in the table below.

For assistance in determining the LLN level of performance please consult with your relevant Learning Support Services.

Table 4 Language, Literacy and Numeracy

| **Level of Performance** | **PL1A&B** | **1** | **2** | **3** | **4** | **5** |
| --- | --- | --- | --- | --- | --- | --- |
| **Learning** |  |  |  |  |  |  |
| **Reading** |  |  |  |  |  |  |
| **Writing** |  |  |  |  |  |  |
| **Numeracy** |  |  |  |  |  |  |
| **Oral communication** |  |  |  |  |  |  |

### 2.3 Recognition Processes

#### Recognition of Prior Learning

Students are able to have their competency from prior learning and work experience recognised in this qualification through the following arrangements.

* Evidence of completing formal training
* Work experience: on the job experience and informal training
* Life experience: community group involvement, family activities, sports, hobbies, leisure activities, unpaid work, organising events, and/or travel.

Applications for RPL will be assessed on an individual basis and may be granted when a portfolio of evidence is assessed in accordance with TAFE NSW Recognition Policy and Procedures and the student is deemed competent for the unit/s of competency for which the application applies. Alternatively, the student may nominate to undertake a challenge assessment for the opportunity to demonstrate competency.

**Credit Transfer**

Students may also apply for credit transfer upon enrolment. The same or equivalent units of competency previously completed through an Australian RTO may be credited towards the new qualification they enrol into.

### 2.4 Educational and Support Services

TAFE NSW provides the following services to ensure a supported and successful learning environment for all students:

* Aboriginal and/or Torres Strait Islander Student Support and Services
* Accessibility and Disability Services
* Personal Counselling
* Vocational Counselling
* Learning Support
* International Student Support
* Scholarships
* Multicultural Support

Detailed current information on these Support Services are made available to staff and students at [TAFE NSW Student Services](http://www.tafensw.edu.au/support). Additionally every student is supported by a dedicated Student Services team at each campus location.

### 2.5 WHS Risk Ranking

Consult the WHS risk register for this course

This Training Product has the following WHS risk ranking High risk

Refer to the TAFE NSW Enterprise [Risk Management Policy](https://staff.tafensw.edu.au/documents/2017/11/enterprise-risk-management-policy.pdf/) for more details

### 2.6 Physical and Learning Resources

Specifically, the physical and learning resources listed below are required for the delivery and assessment of this Specialist Stream or Industry Identified Stream for this training product:

Table 5 Physical and Learning Resources

| Type | Resource Requirements |
| --- | --- |
| Facilities | Each TAFE NSW Regional centre will provide at least one delivery campus. Facilities will include a classroom with computers with relevant software installed for online learning/ CAD drawing capabilities, internet access, desks, chairs, white/chalk board and projector capabilities.  An Engineering Fabrication workshop for the delivery of practical activities and assessments, complete with all tools/equipment and machinery of industry standard.  TAFE Campus Library facilities including: computing lab equipped with relevant software for provision of online learning access, internet access. |
| Equipment | MEM03003B Seamers, pop rivet guns  MEM05005B Tooling to suit guillotines, croppers, cold saws, band saws, automatic saws  MEM05007C Oxygen and Acetylene welding equipment  MEM05010C Presses, shapers, benders, rollers, drop hammers  MEM05012C Manual Metal Arc Welding Machine, Welding leads, welding machines, electrode holder etc.  MEM05015D Equipment may include AC or DC welding machines  MEM05016C AC or DC welding machines, settings, electrodes and related equipment  MEM05017D Equipment may include AC or DC welding machines  MEM05018C AC or DC welding machines, settings, electrodes and related equipment  MEM05019D Welding equipment may include AC or DC welding machines  MEM05020C AC or DC welding machines, settings, electrodes and related equipment  MEM05036C MMAW, GMAW, GTAW  MEM05047B Semi-automatic welding machines  MEM05049B  Gas Tungsten Arc Welding Machine, Hoses, welding leads and gas shrouds, electrodes, gas regulator, liners, contact tips  MEM05050B Gas Metal Arc Welding Machine, Hoses, welding leads, gas shrouds, gas regulators, liners, contact tips  MEM08010 Endless belt grinders; table linishers; pedestal grinders and polishers; felt wheels, fabric mops and brushes with underhand and overhand techniques; flexible drive appliances; buffing compounds; cutting compounds and abrasive belts  MEM11011B Hand trolleys, wheelbarrows, motorised/hand pallet trucks (not sit on), scissor lifts, boom lifts, hand carts, dedicated production or process lifting equipment such as baskets, spreader bars, cradles or the like attached to lifting equipment  MEM12023A Protractors, combination squares, set squares, dial indicators, thermometers, tapes, rules, micrometers, vernier-scaled measuring equipment  MEM16008A Hand held data recording devices, screen based equipment, personal computers, bar coders, word processing and spreadsheet applications  MEM18001C Hacksaws, hammers, punches, screwdrivers, sockets, wrenches, scrapers, chisels, gouges, wood planes and files of all cross-sectional shapes and types  MEM18002B Electric or pneumatic/hydraulic drills, grinders, jigsaws, nibblers, cutting saws, sanders, planers, routers, pedestal drills and pedestal grinders |
| Trainer and Assessor Qualifications and Industry Experience | Minimum qualification of Certificate III in Fabrication Trade or equivalent.  Evidence of maintaining relevant and current industry professional development including ongoing exposure and development to maintain currency of industry skills.  TAE40110 - Certificate IV in Training and Assessment.  Evidence of maintaining Training and Assessment Qualifications and Professional Development,  Including ongoing development in current training and assessment practice. |
| Learning Resources | Each unit to have a set of comprehensive unit notes, class activities, practical task with relevant drawings and instructions, teaching and learning resources, assessments and RPL documents  Online teaching and learning and assessment capabilities. Software packages such as CAD Master, Microsoft Word, Excel are all available on classroom computers.  Access to library services including books, ebooks, industry journals and magazines, on-line data base specific to trade profile. Access to trade relevant multimedia learning materials. Access to policies and procedures, WHS legislation, regulations and codes of practice, Australian Standards, manufacturer instructions, industry legislation, forms and templates such as checklists, hazard reports, quality assurance, work plans etc |

### 2.7 Industry Engagement

Training and assessment practices must be relevant to the needs of industry and informed by industry engagement, this may also influence resources and staff currency. Details below are of the most current engagement activities undertaken for this training product.

Table 6 SkillsPoint Engagement

| No. | Industry/Organisation | Representative Name | Contact Details  (Email/Telephone) | Date of Consultation | How did this engagement influence one or more of the following?   * Qualification/ Course / Skill set selection * Elective selection and/or sequencing * Mode of study * Training Methods * Assessment Methods * Trainer and assessor requirements * Training and assessment resources and equipment * Contextualisation |
| --- | --- | --- | --- | --- | --- |
| **1** | National Industry Association  Fabrication Trade/ Fabrication Trade Boiler Making Employers   * National electricity supplier * National Engineering enterprise | MRS\_18\_04\_MEM30305\_IER\_01  MRS\_18\_04\_MEM30305\_IER\_02  MRS\_18\_04\_MEM30305\_IER\_03 | MRS\_18\_04\_MEM30305\_IER\_01  MRS\_18\_04\_MEM30305\_IER\_02  MRS\_18\_04\_MEM30305\_IER\_03 | 11/07/2018  27/06/2018  31/6/18 | The current mode of study was discussed with a range of stakeholders including a National Industry Association, a national engineering enterprise and a major electricity supplier.  **Feedback:**  All stakeholders supported the current delivery and sequencing which includes 1 day at TAFE NSW face to Face supplemented with some online (Blended).  **Action**  TAFE NSW will adopt a blended mode of delivery to provide flexibility without compromising practical hands on learning. |
| **2** | National Industry Association  Peek Body  Fabrication Trade/ Fabrication Trade Boiler Making Employers   * National electricity supplier | MRS\_18\_04\_MEM30305\_IER\_01  MRS\_18\_04\_MEM30305\_IER\_04  MRS\_18\_04\_MEM30305\_IER\_03 | MRS\_18\_04\_MEM30305\_IER\_01  MRS\_18\_04\_MEM30305\_IER\_04  MRS\_18\_04\_MEM30305\_IER\_03 | 11/07/2018  25/06/2018  27/06/2018 | This stakeholder is a National Industry Association representing the welding profession in Australia. The members are made up of individual welding professionals and companies of all sizes.  **Feedback:**   * MEM09022A Create 2D code files using computer aided manufacturing system could be removed and put into Certificate IV. * Instead of including spread sheets and word processing In the MEM16008A Interact with computing technology unit would it be possible to include 2D?   The peak body noted that there is limited automation in fabrication except plasma cutting and the unit would be more appropriate for inclusion in post trade qualifications. This was confirmed a national employer.  **Action**  MEM09022A Create 2D code files using computer aided manufacturing system was removed and will be considered for inclusion in the Certificate IV engineering qualifications.  TAFE NSW is considering including some 2D coding in the MEM16008A Interact with computing technology. |
| **3** | Fabrication Trade/ Fabrication Trade Boiler Making Employers   * National Engineering enterprise | MRS\_18\_04\_MEM30305\_IER\_02 | MRS\_18\_04\_MEM30305\_IER\_02 | 31/6/18 | This stakeholder provides engineering services to the manufacturing, mining and heavy industry sectors across Australia and internationally for over 50 years. Specialising in precision fabrication, plasma profiling and rolling and pressing services to manufacture and deliver chutes, bins, tanks and loaders.  **Feedback:**  This stakeholder would like to see more workplace used software or Computer Aided Drawing (CAD) included.   * Queried the content and relevance MEM16008A Interact with computing technology that is being delivered to their apprentices.   **Action**  MEM16008A Interact with computing technology is a core unit and requires the student to utilise computing technology to source relevant information as well as utilise file storage and data software.  There are no electives listed in the qualification that relate directly to CAD.  Although MEM16008A Interact with computing technology does not specify CAD, TAFE NSW is considering the inclusion of CAD in the training for this unit. |
| **4** | Fabrication Trade/ Fabrication Trade Boiler Making Employers   * National electricity supplier   National Industry Association | MRS\_18\_04\_MEM30305\_IER\_03  MRS\_18\_04\_MEM30305\_IER\_01 | MRS\_18\_04\_MEM30305\_IER\_03  MRS\_18\_04\_MEM30305\_IER\_01 | 27/06/2018  11/07/2018 | This stakeholder is one of Australia's major electricity generators with multiple power stations and gas turbines.  **Feedback:**   * This stakeholder support the inclusion of gas tungsten arc welding (TIG) units within Certificate III qualification. * The following units are on this employer’s elective list but they feel MEM05037C Perform geometric development is sufficient. * MEM05038B - Perform advanced geometric development - cylindrical/rectangular * MEM05039B - Perform advanced geometric development – conical * MEM05040B - Perform advanced geometric development - transitions * The National Industry Association suggested that the Geometric unit could be being delivered at a slightly higher level but assessed at unit level to meet industry needs. * MEM05036C Repair/replace/modify fabrications is a good choice for the fabrication trade/fabrication trade boilermaking specialisation.   **Action**   * MEM05049B Perform routine gas tungsten arc welding included in all specialisations as a common unit. * MEM05037C Perform geometric development has been included as an elective across all specialisations and TAFE NSW is considering delivering the unit at a slightly higher level but assessing at unit level to meet industry needs. * The following units have been excluded. * MEM05038B - Perform advanced geometric development - cylindrical/rectangular * MEM05039B - Perform advanced geometric development – conical * MEM05040B - Perform advanced geometric development – transitions * MEM05036C Repair/replace/modify fabrications has been included in this specialisation. |
| **5** | Peek Body  National Industry Association  Fabrication Trade/ Fabrication Trade Boiler Making Employers   * National Engineering enterprise | MRS\_18\_04\_MEM30305\_IER\_04  MRS\_18\_04\_MEM30305\_IER\_02  MRS\_18\_04\_MEM30305\_IER\_01 | MRS\_18\_04\_MEM30305\_IER\_04  MRS\_18\_04\_MEM30305\_IER\_02  MRS\_18\_04\_MEM30305\_IER\_01 | 25/06/2018  11/07/2018  31/6/18 | This stakeholder is a peak employer organisation representing traditional, innovative and emerging industry sectors. Together with partner organisations they represent the interests of more than 60,000 businesses employing more than 1 million staff. Their members are small and large businesses in sectors including manufacturing, construction, engineering, transport & logistics, labour hire, mining services, the defence industry, civil airlines and ICT.  **Feedback:**   * Questioned the context of the common elective MEM09002B Interpret technical drawing and queried its inclusion in all streams.   A national engineering services employer confirmed the need for apprentices to have sound paper based technical drawing interpretation knowledge and skills.  In addition the National Industry Association queried if the impending R2 release of the package was considered when selecting units.   * MEM05008C Perform advanced manual thermal cutting, gouging and shaping could be included in the Certificate IV qualification rather than in the trade qualification. * Would like to see MEM07032B - Use workshop machines for basic operations in the fabrication/boilermaker stream   **Action**   * MEM09002B Interpret technical drawing was included in all streams as it is a common prerequisite for several key units and is a common unit in R2. * Units have been selected to minimise the impact of transition on students i.e. ensuring students are not disadvantaged. * After consideration MEM05008C Perform advanced manual thermal cutting, gouging and shaping was removed. This unit will be considered for inclusion in the Certificate IV engineering qualifications. * After consideration, MEM07032B - Use workshop machines for basic operations was excluded from this specialisation. Inclusion of this unit would result in the inability to include other critical units due to limitations in the packaging rules. This unit will be considered for inclusion in the Certificate IV engineering qualifications. |
| **6** | National Industry Association | MRS\_18\_04\_MEM30305\_IER\_01 | MRS\_18\_04\_MEM30305\_IER\_01 | 31/6/18 | National Industry Association representing the welding profession in Australia. The members are made up of individual welding professionals and companies of all sizes. Weld Australia members are involved almost every facet of Australian industry and make a significant contribution to the nation’s economy.  **Feedback:**  The inclusion of MEM05015D Weld using manual metal arc welding process in all streams could be considered however the inclusion of advanced TIG would probably be better for sheet metal stream.  **Action**  MEM05015D Weld using manual metal arc welding process has been included in the fabrication trade/fabrication trade boilermaking specialisation. |
| **7** | Peek Body  Fabrication Trade/ Fabrication Trade Boiler Making Employers   * National Engineering enterprise | MRS\_18\_04\_MEM30305\_IER\_02  MRS\_18\_04\_MEM30305\_IER\_04 | MRS\_18\_04\_MEM30305\_IER\_02  MRS\_18\_04\_MEM30305\_IER\_04 | 31/6/18  25/06/2018 | This stakeholder provides engineering services to the manufacturing, mining and heavy industry sectors across Australia and internationally.  **Feedback:**   * Recognised that while most welding undertaken is MiG (GMAW) based, still require a strong MMA component. * Industry representatives supported augmenting delivery with online resources. * The balance of the common units were seen to be relevant and OK for the qualification. * Facilities and equipment adequate for Fabrication stream.   **Action**   * To ensure cross sector employment mobility to maximise options in the event of loss of employment both manual metal arc welding and gas metal arc welding units have been included as electives. * TAFE NSW is considering adopting a blended mode of deliver that will include a combination of online and face to face delivery. |
| 8 | Fabrication Trade/ Fabrication Trade Boiler Making Employers   * National electricity supplier | MRS\_18\_04\_MEM30305\_IER\_03 | MRS\_18\_04\_MEM30305\_IER\_03 | 27/06/2018 | This apprentice employer provides the perspective of a national energy provider.  **Feedback:**   * This stakeholder currently utilises a comprehensive portfolio of evidence for all apprentices undertaking training. * Confirmed TAFE NSW facilities and equipment adequate for delivery of all specialisation streams.   **Action**  TAFE NSW is considering the use of portfolios in training and assessment. |

3. Transition Arrangements

When there is a change to the Training Package that impacts on this TAS, the SkillsPoint will work with Standards and Compliance teams to complete a Transition Plan and notify all staff affected as soon as possible.

TAFE NSW complies with clauses 1.26 and 1.27 of the *Standards for RTOs 2015*. When there are major changes to the Training Package, the SkillsPoint will review the changes made and create a plan to transition to the new training package requirements and cater for completion arrangements for students where possible. The progress of the transition will be implemented by the Delivery, Implementation and Performance and Skills Teams and monitored by Standards and Compliance teams.

Transition arrangements must be completed within 12 months of changes being published on training.gov.au for superseded qualifications and two years for deleted training products.

Does this qualification require the completion of a Transition Plan  Yes  No

If yes, a completed Transition Plan is attached.

4. Structure, Delivery and Assessment

### 4.1 Volume of Learning

**Volume of Learning** includes all activities required to be undertaken by the typical student to achieve learning outcomes. It is comprised of the Amount of Training + the Amount of Assessment + Unstructured Learning.

**Amount of Training** takes into consideration the existing skills, knowledge and experience of students, the mode of delivery, availability of resources and the number of units. It is the **Structured Learning** – formal learning activities, which may consist of

• Lectures or tutorials, on-line tasks and forums

• Learning activities

• Structured workplace experience

• Workshop activities

• Structured prescribed reading

• Prescribed follow-up activities

**Unstructured Learning** may include private study, assignment preparation, work experience and research.

A justification must be included for any differences between the **AQF Volume of Learning indicator** and the total hours in each instance of course delivery. Factors that may reduce volume of learning can include the number of units packaged in the qualification, student having pre-existing knowledge and skills, mode of delivery and clustering of units. For further information see [Fact Sheet - Amount of Training](https://www.asqa.gov.au/news-publications/publications/fact-sheets/amount-training).

The **AQF Volume of Learning indicator** for this product is: Certificate III 1200-2400 hours

The **Total Amount of Training Hours** for this product is: 612

The **Total Amount of Assessment Hours** for this Product is: 108

The Total Estimated **Unstructured Learning Hours** for this product are: 1380

The **Total Volume of Learning** for this product is: 2196

### 4.2 Delivery Strategy

Details of the Volume of Learning for this training product are outlined below:

Table 7 Volume of Learning - Detail

**Outline of Delivery Strategy and Justification for variance in Volume of Learning from the AQF Indicator:**

| **No.** | **Delivery Mode** | **Types of Structured Learning** | **Structured Learning**  **Hours** | **Assessment Hours** | **Unstructured Learning Hours** | **Volume of Learning** |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | **Blended Delivery** (including face to face and online classes) | Face-to-face or online lectures/ learning activities  Workshop/ practical tasks | 612hrs |  |  | Approx. 7.5hrs per week/32 weeks per year x 3 years  720 |
| Assessments  (15% of unit delivery hours) |  | 108hrs |
| **2** | **Self-directed** |  |  |  | Content review/Assessment preparation  1hrs per week/32 weeks per year x 3 years  96hrs | 96 |
| **3** | **Workplace learning** |  |  |  | 2hrs per day / 10hrs per week/46 weeks per year x 3 years  1380hrs | 1380 |
| **4** | **Total** |  | 612 | 108 | 1476 | **2196** |

**Outline of Delivery Strategy and Justification for variance in Volume of Learning from the AQF Indicator:**

**Student cohort**

Students enrolled in this qualification are apprentices employed full time seeking to gain skills and knowledge to become a qualified Fabrication Boilermaker after successful completion. Students will work in industry and study at the same time.

**Elective choice**

Based on consultation with industry and across TAFE NSW

**Delivery and Assessment**

Delivered over 3 years as per timeline in Table 8: Delivery and Assessment schedule.

Blended which includes:

• Face to face (synchronous) delivery supervised by a facilitator e.g. classes and tutorials. Also includes practical workshop learning activities. All learning activities completed by whole class, in small groups and individually at various points (if that’s the case)

• Online (asynchronous) delivery via Moodle and Learning Bank, this will include self-paced learning activities completed individually, recorded sessions, access to online resources to support learning.

• Workplace experience e.g. unstructured on the job learning as part of their apprenticeship.

Assessment can include a variety of methods where students may need to gather evidence from their experience at work and / or evidence from their time in practical hands on workshop (TAFE NSW Campus Engineering workshop) and theory based assessments that could be completed without the access to a workplace or simulated workplace environment.

Delivery sites will work with their customers and HOSTs to determine best delivery pattern and capability. Assessors will gain employer confirmation of competence in accordance with Training Services NSW requirements for Apprentice training plans for final sign off of units of competence.

**Student Support:**

The apprentice and employer will receive a work plan outlining skills required at agreed timelines, and a learning and assessment plan which will be supported by the apprentice’s Training Plan.

Further support will be provided via fluid communication with teaching staff including ESOs and added sessions as appropriate. The aligned TAFE teacher will provide support as required in delivery and assessment to the context of each workplace.

### 4.3 Assessment

*Table 8* below provides a description of the sequencing of units throughout the program. It also outlines the delivery strategy, the mode (face to face, online, workplace, etc.), the hours of training and assessment required and the assessment methodology.

#### Assessment Method Legend

The assessment methods used for this training product are as follows:

**Sk Skills** (role play scenario, presentation, practical, observation)

**Kn Knowledge** (multiple choice, true or false, short answer questions)

**Pro Project** (report, research based project, journal, essay)

**CS Case study** (case study scenario, reflection)

**TLB Training Log Book**

**Prt Portfolio** (samples of work in a workplace environment)

**O Other** (add description)

#### Delivery and Assessment

Table 8 Delivery and Assessment Schedule

| **Sequence.** | **Unit Code and Unit Title** | **Cluster Group #**  **Or Stand Alone** | **Unit Delivery Mode** | **Training and Assessment Hours** | **Unit**  **Start and End dates** | **Assessment:**  **Methods and Weighting**  *(refer to legend)* | **Assessment: Due Dates** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | MEM13014A – Apply principles of occupational health and safety in the work environment | Cluster Group | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **2** | MEM11011B - Undertake manual handling | Cluster Group | Blended | 10 |  | Sk, Kn, 50/50 |  |
| **3** | MEM16007A – Work with others in a manufacturing, engineering or related environment | Cluster Group | Blended | 10 |  | Sk, Kn, 50/50 |  |
| **4** | MEM05050B – Perform routine gas metal arc welding  ***MEM05 Prerequisites***  MEM12023A Perform engineering measurements  MEM18001C Use hand tools | Stand Alone | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **5** | MEM05052A – Apply safe welding practices | Stand Alone | Blended | 30 |  | Sk, Kn, 50/50 |  |
| **6** | MEM12023A – Perform engineering measurements | Stand Alone | Blended | 20 |  | Sk, Kn, 50/50 |  |
| **7** | MEM18001C – Use hand tools | Stand Alone | Blended | 20 |  | Sk, Kn, 50/50 |  |
| **8** | MEM18002B – Use power tools/hand held operations | Stand Alone | Blended | 20 |  | Sk, Kn, 50/50 |  |
| **9** | MEM05005B – Carry out mechanical cutting | Stand Alone | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **10** | MEM09002B – Interpret technical drawing | Stand Alone | Blended | 25 |  | Sk, Kn, 50/50 |  |
| **11** | MEM05007C – Perform manual heating and thermal cutting | Stand Alone | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **12** | MEM05051A – Select welding processes | Stand Alone | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **13** | MEM05049B – Perform routine gas tungsten arc welding | Stand Alone | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **14** | MEM16006A – Organise and communicate information | Stand Alone | Blended | 10 |  | Sk, Kn, Prt 40/40/20 |  |
| **15** | MEM15002A – Apply quality systems | Cluster Group | Blended | 10 |  | Sk, Kn, Prt 40/40/20 |  |
| **16** | MEM15024A – Apply quality procedures | Cluster Group | Blended | 10 |  | Sk, Kn, Prt 40/40/20 |  |
| **17** | MEM05012C – Perform routine manual metal arc welding | Stand Alone | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **18** | MEM05017D – Weld using gas metal arc welding process  ***MEM05 Prerequisites***  MEM05050B Perform routine gas metal arc welding  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Stand Alone | Blended | 25 |  | Sk, Kn, 50/50 |  |
| **19** | MEM12024A – Perform computations | Stand Alone | Blended | 20 |  | Sk, Kn, 50/50 |  |
| **20** | MEM16008A – Interact with computing technology | Stand Alone | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **21** | MEM12007D – Mark off/out structural fabrications and shapes | Stand Alone | Blended | 30 |  | Sk, Kn, 50/50 |  |
| **22** | MEM05011D – Assemble fabricated components  ***MEM05 Prerequisites***  MEM05005B Carry out mechanical cutting  MEM05007C Perform manual heating and thermal cutting  MEM05012C Perform routine manual metal arc welding  MEM05015D Weld using manual metal arc welding processes  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Stand Alone | Blended | 60 |  | Sk, Kn, 50/50 |  |
| **23** | MEM05019D – Weld using gas tungsten arc welding process  ***MEM05 Prerequisites***  MEM05049B Perform routine gas tungsten arc welding  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Stand Alone | Blended | 25 |  | Sk, Kn, 50/50 |  |
| **24** | MSAENV272B – Participate in environmentally sustainable work practices | Stand Alone | Blended | 20 |  | Sk, Kn, Prt 40/40/20 |  |
| **25** | MEM14004A – Plan to undertake a routine task | Cluster Group | Blended | 10 |  | Sk, Kn, Prt 40/40/20 |  |
| **26** | MEM14005A – Plan a complete activity | Cluster Group | Blended | 10 |  | Sk, Kn, Prt 40/40/20 |  |
| **27** | MEM05037C – Perform geometric development  ***MEM05 Prerequisites***  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM12024A Perform computations | Stand Alone | Blended | 50 |  | Sk, Kn, 50/50 |  |
| **28** | MEM05010C – Apply fabrication, forming and shaping techniques  ***MEM05 Prerequisites***  MEM05037C Perform geometric development  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM12024A Perform computations  MEM18001C use hand tools | Stand Alone | Blended | 60 |  | Sk, Kn, 50/50 |  |
| **29** | MEM05009C – Perform automated thermal cutting  ***MEM05 Prerequisites***  MEM12023A Perform engineering measurements | Stand Alone | Blended | 15 |  | Sk, Kn, 50/50 |  |
| **30** | MEM05015D – Weld using manual metal arc welding process  ***MEM05 Prerequisites***  MEM05012C Perform routine manual metal arc welding  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Stand Alone | Blended | 25 |  | Sk, Kn, 50/50 |  |
| **31** | MEM05018C – Perform advanced welding using gas metal arc welding process  ***MEM05 Prerequisites***  MEM05007C Perform manual heating and thermal cutting  MEM05017D Weld using gas metal arc welding process  MEM05050B Perform routine gas metal arc welding  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Stand Alone | Blended | 30 |  | Sk, Kn, 50/50 |  |
| **32** | MEM05036C – Repair/replace/modify fabrications  ***MEM05 Prerequisites***  MEM05005B Carry out mechanical cutting  MEM05007C Perform manual heating and thermal cutting  MEM05011D Assemble fabricated components  MEM05012C Perform routine manual metal arc welding  MEM05015D Weld using manual metal arc welding processes  MEM05051A Select welding processes  MEM05052A Apply safe welding practices  MEM09002B Interpret technical drawing  MEM12023A Perform engineering measurement  MEM18001C Use hand tools  MEM18002B Use power tools/hand held operations | Stand Alone | Blended | 25 |  | Sk, Kn, 50/50 |  |
| **33** | MEM17003A – Assist in the provision of on the job training | Stand Alone | Blended | 15 |  | Sk, Kn, Prt 40/40/20 |  |

**Note**: Training and Assessment hours is the total amount of structured learning hours (supervised and unsupervised)

5. Master TAS Approval

### Product Manager

Name:

Signature:

Date:

### Head of SkillsPoint

Name:

Signature:

Date:

### Senior Manager, Product Development Support

Name: <http://live.nei.tafensw.edu.au/DATA2/Site/Approvals/request.aspx?request_id=35>

Signature:

Date:

PART B – Delivery TAS Information

6. Delivery Details

### Delivery Location

Campus:

Region:

### Offering Owner

Name:

ebs Identifier:

### Mode/s of Delivery

Face to Face Learning

Workplace Training

Online Learning

Blended

Other:

### Details of Target Student Group

### Duration

Total Hours:

Total Weeks:

Start and End Date:

### 6.1 Entry Requirements

The following **local entry requirements** exist for this course:

### 6.2 Additional Student Support at Delivery Location

The following additional Student Support is available:

### 6.3 Contextualisation

Following from the Delivery Strategy outlined in Section 4 above, the following arrangements have been made to contextualise delivery of this Training Product to meet the needs of this student group:

7. Third Party Arrangements

Are any training and assessment components for this product delivered by a third party, and if so has the required written agreement been put in place?  Yes  No

If yes, please provide a summary of the third party arrangement:

Have the details of this arrangement been attached?  Yes  No

Have details of this arrangement been provided to TAFE NSW Governance, Legal and Risk?  Yes  No

Has ASQA been notified of this arrangement prior to any delivery commencing?  Yes  No

8. Staff Qualifications and Industry Experience

Insert link to detailed staff matrix.

Table 9 Staff Matrix

| **No** | **Units of Competency Delivering / Assessing**  (multiple units can be grouped together) | **Trainer/ Assessor Name** | **Trainer, Assessor or Both** | **Training and Assessment Qualifications**  **AND**  **Current evidence of ongoing development in training and assessment practice**  *(including correct title, name of provider and date)* | * **Vocational Qualifications** * **Licences** * **Professional development including ongoing exposure and development to maintain currency of industry skills**   *(including correct title, name of provider and date)* |
| --- | --- | --- | --- | --- | --- |
| *Delete this row after completing table* | *RII30915 - Certificate III in Civil Construction (Release 1)*  *RIIBEF201D*  *RIICOM201D*  *RIIOHS201D* | *Joe Bloggs* | Trainer only | * TAE40110 Certificate IV in Training and Assessment – ABC Training 23 November 2016. * VELG Assessment Practices Workshop 5 June 2018. * HTAN Training News Update Breakfast Meeting 26 March 2018. * ASQA Training Provider Briefing Session June 2018 | * BCC30107 - Certificate III in Civil Construction – XYZ Training 17 June 2008. * RII30913 - Certificate III in Civil Construction – Bendigo Kangan Institute – 03 June 2013 * CPCCOHS1001A - Work safely in the construction industry - XYZ Training 3 Sep 2009. * Construction Australia Expo, Brisbane, 11 March 2017 * Australian Building Codes Board Seminar, Canberra, 20 October 2017 * Civil Engineer operating own consultancy from 2005-current. |
| **1** |  |  | Choose an item. |  |  |
| **2** |  |  | Choose an item. |  |  |
| **3** |  |  | Choose an item. |  |  |
| **4** |  |  | Choose an item. |  |  |
| **5** |  |  | Choose an item. |  |  |
| **6** |  |  | Choose an item. |  |  |
| **7** |  |  | Choose an item. |  |  |
| **8** |  |  | Choose an item. |  |  |
| **9** |  |  | Choose an item. |  |  |
| **10** |  |  | Choose an item. |  |  |
| **11** |  |  | Choose an item. |  |  |
| **12** |  |  | Choose an item. |  |  |
| **13** |  |  | Choose an item. |  |  |
| **14** |  |  | Choose an item. |  |  |
| **15** |  |  | Choose an item. |  |  |
| **16** |  |  | Choose an item. |  |  |
| **17** |  |  | Choose an item. |  |  |

9. Additional Industry/Community Engagement

Training and assessment practices must be relevant to the needs of industry and communities and be informed by consultation, this may also influence resources and staff currency. Details below are of further engagement activities undertaken for this training product at a Regional/Local level.

Table 10 Additional Industry/Community Engagement

| **No** | **Industry/Organisation** | **Representative Name** | **Contact Details**  **(Email/Telephone)** | **Date of Consultation** | **How did this engagement influence one or more of the following?**   * Qualification/ Course / Skill set selection * Elective selection and/or sequencing * Mode of study * Training Methods * Assessment Methods * Trainer and assessor requirements * Training and assessment resources and equipment * Contextualisation |
| --- | --- | --- | --- | --- | --- |
| **1** |  |  |  |  |  |
| **2** |  |  |  |  |  |
| **3** |  |  |  |  |  |
| **4** |  |  |  |  |  |
| **5** |  |  |  |  |  |
| **6** |  |  |  |  |  |
| **7** |  |  |  |  |  |
| **8** |  |  |  |  |  |
| **9** |  |  |  |  |  |

10. Assessment Validation

Validation is the quality review of the assessment processes and judgements. Validation involves checking that the assessment tool/s produce/s valid, reliable, sufficient, current and authentic evidence that complies with the appropriate AQF level and the dimensions of competency to enable reasonable judgments to be made as to whether the requirements of the training package or VET accredited courses are met. It includes reviewing a statistically valid sample of the assessments and making recommendations for future improvements to the assessment tool, process and/or outcomes and acting upon such recommendations.

Clause 1.9 and 1.10 of the Standards for RTOs require that the RTO implements a plan for ongoing systematic validation of assessment practices and judgements; the plan needs to ensure that each training product is validated at least once every five years, with at least 50% of products validated within the first three years of each five year cycle.

### 10.1 Validation of assessment judgements

Details of the scheduled validation of judgements for the training product identified in this Training and Assessment Strategy are provided below:

Table 10 Validation of assessment judgements

| **Date of last validation of judgements** | **Codes and names of units validated** | **Number of judgements included in the sample for each unit** | **Have the actions arising from the validation been completed and signed off? If No, please outline below outstanding actions and when they are due for completion** | **Scheduled date of next validation of judgements** |
| --- | --- | --- | --- | --- |
| Click here to enter a date. |  |  | Yes No | Click here to enter a date. |

Location of validation record:

Details confirmed by:

Signature:

11. Delivery TAS Approval

The signatures below indicate that the Delivery Team meets the requirements of the Master Product outlined above. Any additional Contextualisation must be outlined in a Business Case and referred back to the SkillsPoint - details in Part A above.

### Delivery Location

Campus:

Region:

### Head of Delivery, Implementation and Performance

Name:

Signature:

Date:

### Head of Skills Team

Name:

Signature:

Date:

### Team Leader (or equivalent)

Name:

Signature:

Date: