

Computer Aided Drafting

AQF VET qualification: Statement of Attainment in Computer Aided Drafting

Training Package: Metals and Engineering (MEM05) version 9

| BOS course name | Pattern of study | BOS course number | Schools Online (Administration) entry advice |
|-------------------------------------|-------------------|-------------------|--|
| Computer Aided Drafting (120 hours) | 2 units x 1 year | 41501 | Enter this course number for either Preliminary (Year 11) or HSC (Year 12) |
| Computer Aided Drafting (240 hours) | 2 units x 2 years | 41503 | Enter this course number for both Preliminary (Year 11) and HSC (Year 12) |

Eligibility: Nil

Exclusions: Stage 6 Industrial Technology Graphics Technologies Focus Area

HSC course requirements

Computer Aided Drafting (120 indicative hours)

- the possible qualification outcome is a Statement of Attainment towards Computer Aided Drafting
- accredited for a total of 2 units at the Preliminary and/or HSC level
- attempt units of competency to a minimum of 120 HSC indicative hours
- complete a minimum of 35 hours of mandatory work placement.*

Computer Aided Drafting (240 indicative hours)

- the possible qualification outcome is a Statement of Attainment towards Computer Aided Drafting
- accredited for a total of 4 units at the Preliminary and/or HSC level
- attempt units of competency to a minimum of 240 HSC indicative hours
- complete a minimum of 70 hours of mandatory work placement.*

* It is permissible to meet this requirement through a simulated workplace. All simulated workplace training is to be carried out on industry-standard computer equipment and all work produced is to be to industry standards and Australian Drawing Standards.

The requirements for the completion of an HSC VET course are different to the requirements for AQF VET qualification completion. Registered Training Organisations (RTOs) need to ensure that delivery of courses meets HSC course requirements and complies with Training Package rules.

For a course to count towards the HSC program of study, students must satisfy the course completion criteria as required by the Board of Studies. (Refer to the [Assessment Certification Examination \(ACE\) website](#).)

There must be sufficient evidence that the student has:

- followed the course developed by the Board
- applied themselves with diligence and sustained effort to the set tasks and experiences provided in the course
- achieved some or all of the course outcomes
- (where applicable) undertaken the mandatory work placement.

Unit credit for the Higher School Certificate

Computer Aided Drafting HSC VET courses count as Board Endorsed unit credit for the HSC but do not contribute towards an Australian Tertiary Admission Rank (ATAR).

To facilitate flexibility of VET in the HSC, courses may be delivered as Preliminary, as HSC or as a combination of Preliminary and HSC units.

The HSC credit units will be allocated to students' Preliminary and/or HSC patterns of study as required.

The pattern of study (BOS course number) entered on *Schools Online (Administration)* should reflect the delivery of the HSC VET course over successive years. For example, delivery of a 240 HSC indicative hour course over two years should be entered as 2 units x 2 years. Students will be credentialled for the HSC credit units entered each calendar year, provided they have satisfactorily completed the course requirements for that calendar year as determined by the school, college or RTO.

Course content

| Unit code and title | Status for AQF VET qualification | HSC indicative hours of credit |
|--|----------------------------------|--------------------------------|
| NSWTMET001A MERS induction unit | – | 10 |
| MEM09002B Interpret technical drawing | elective | 30 |
| MEM09005B Perform basic engineering detail drafting Prerequisite: MEM09002B MEM09003B | elective | 40 |
| MEM09009C Create 2D drawings using computer aided design system Prerequisite: MEM09002B MEM16008A | elective | 40 |
| MEM09010C Create 3D models using computer aided design system Prerequisite: MEM09002B MEM09009C | elective | 30 |
| MEM09204A Produce basic engineering detail drawings Prerequisite: MEM09002B | elective | 30 |
| MEM16006A Organise and communicate information | elective | 15 |
| MEM16008A Interact with computing technology | elective | 10 |
| MEM30031A Operate computer-aided design (CAD) system to produce basic drawing elements | elective | 40 |
| MEM30032A Produce basic engineering drawings | elective | 40 |

AQF VET qualification

Refer to TAFE NSW documentation.

Other information

Criteria for the endorsement of Board Endorsed VET courses (VET BECs)

The criteria for endorsement of VET BECs are outlined in the *Guidelines for Stages 5 and 6 Board Endorsed VET Courses* available on the Board's website at www.boardofstudies.nsw.edu.au/voc_ed/board-endorsed-courses.html.

HSC VET course delivery

HSC VET courses can only be delivered by an RTO with the relevant qualification and units of competency on their scope of registration. Scope of registration can be checked at <http://training.gov.au>.

RTOs offering training programs for the delivery and assessment of Computer Aided Drafting HSC VET courses must meet the requirements of the VET Quality Framework, the [Metals and Engineering Training Package \(MEM05\)](#) and the HSC course.

Information about the delivery of HSC VET courses by RTOs other than school system RTOs or TAFE NSW institutes is contained on the Board's [Assessment Certification Examination \(ACE\) website](#).

Non-government schools outsourcing delivery of HSC VET courses to external providers also need to refer to the *Registered and Accredited Individual Non-government Schools (NSW) Manual* or *Registration Systems and Member Non-government Schools (NSW) Manual* which are available on the Board's website at www.boardofstudies.nsw.edu.au/manuals/#regaccredsystemsmanuals.

HSC work placement requirements

Work placement is a mandatory HSC requirement for all Computer Aided Drafting VET courses.

Students undertaking HSC VET courses as part of a school-based apprenticeship or traineeship will meet mandatory work placement hour requirements through the on-the-job training component of the school-based apprenticeship or traineeship.

Students' outside employment (ie not under the auspices of the school) may be recognised towards the requirement for work placement in a VET course (ACE 8051 – [Assessment Certification Examination \(ACE\) website](#)).

Non-completion of work placement is grounds for withholding the HSC course. Schools and colleges are advised to follow the procedure for issuing 'N' determinations as outlined on the Board's [Assessment Certification Examination \(ACE\) website](#).

Allocation of HSC indicative hours of credit

Units of competency drawn from Training Packages are not defined in terms of duration. The amount of time required by individual students to achieve competency will vary according to their aptitude and experience. Where a training program is designed for delivery by an RTO, the RTO will specify the length of the training program according to the delivery strategies and/or curriculum resources chosen.

However, for the purposes of the HSC, VET courses must be described in terms of their indicative hours. For this reason, indicative hours for unit credit towards the HSC have been assigned to each unit of competency. It is emphasised that the assignment of indicative hours does not imply that all students will fulfil all requirements of a unit of competency within these hours. RTOs may determine that additional or fewer hours are required for the achievement of particular competencies. However, this does not alter the HSC indicative hours allocated, only the delivery hours.

Students may need to spend additional time practising skills in a work environment and completing projects and assignments, in order to fulfil Training Package assessment requirements.

Exclusions

Where there is significant overlap between an HSC VET course and other HSC VET or general education courses, the Board has an exclusion between the courses. Exclusions are applied at a course level rather than at the unit of competency level.

Students can only undertake the Computer Aided Drafting (120 indicative hours) course or the Computer Aided Drafting (240 indicative hours) course.

Schools should check all course exclusions when determining an appropriate pattern of study for their students.

Course exclusions for Computer Aided Drafting are detailed on the first page of this course description.

Recognition of Prior Learning (RPL) and credit transfer within VET courses

Students who have current knowledge, skills or experience relevant to a VET course may be granted credit towards the course requirements.

Arrangements for RPL and credit transfer within VET courses, including processes, application forms and examples of possible scenarios, are detailed on the Board's website at www.boardofstudies.nsw.edu.au/voc_ed/rpl.html.

School-based apprentices and trainees

Information regarding provision for school-based apprentices and trainees within the HSC is available on the Board's website at www.boardofstudies.nsw.edu.au/voc_ed/apprenticeships-traineeships.html.

Information on requirements and arrangements for NSW school-based apprenticeships and traineeships is available at www.training.nsw.gov.au/individuals/apprenticeships_traineeships/school_based/index.html.

Students with special education needs

Students with special education needs may access a VET course in one of two ways:

- by undertaking the course under regular course arrangements, or
- by undertaking selected units of competency within the course that have been identified through the collaborative curriculum planning process.

For more information, see the [VET Courses and Students with Special Education Needs](#) fact sheet on the Board's website.

Students in Years 9 and 10 (Stage 5)

In certain circumstances students in Years 9 and 10 (Stage 5) may access Stage 6 VET courses. Further information is available on the Board's website at www.boardofstudies.nsw.edu.au/voc_ed/stage-5.html.