

Plumbing

AQF VET qualification: Statement of Attainment towards CPC32413 Certificate III in Plumbing

Training Package: CPC08 Construction, Plumbing and Services (version 9.3)

BOSTES course name	Pattern of study	BOSTES course number	Schools Online (Administration) entry advice
Plumbing (120 hours)	2 units x 1 year	52210	Enter this course number for either Preliminary (Year 11) or HSC (Year 12)
Plumbing (240 hours)	2 units x 2 years	52212	Enter this course number for both Preliminary (Year 11) and HSC (Year 12)
	or		
	4 units x 1 year	52211	Enter this course number for either Preliminary (Year 11) or HSC (Year 12)
Plumbing (360 hours)	2 units x 2 years	52212	Enter this course number for both Preliminary (Year 11) and HSC (Year 12)
	and		
	2 units x 1 year	52210	Enter this course number for either Preliminary (Year 11) or HSC (Year 12) depending on the pattern of delivery

Eligibility: Plumbing (360 indicative hours) is available to school-based apprentices only.

Exclusions: Nil

HSC course requirements

Plumbing (120 indicative hours)

- the possible qualification outcome is a Statement of Attainment towards CPC32413 Certificate III in Plumbing
- accredited for a total of 2 units at the Preliminary and/or HSC level
- attempt core and/or elective units of competency to a minimum of 120 HSC indicative hours.

Plumbing (240 indicative hours)

- the possible qualification outcome is a Statement of Attainment towards CPC32413 Certificate III in Plumbing
- accredited for a total of 4 units at the Preliminary and/or HSC level
- attempt core and/or elective units of competency to a minimum of 240 HSC indicative hours
- a minimum of 70 hours of work placement is strongly recommended
- for school-based apprentices, work placement requirements are met through the on-the-job training component of the school-based apprenticeship.

Plumbing (360 indicative hours)

- the possible qualification outcome is a Statement of Attainment towards CPC32413 Certificate III in Plumbing
- accredited for a total of 6 units at the Preliminary and/or HSC level
- attempt core and/or elective units of competency to a minimum of 360 HSC indicative hours
- for school-based apprentices mandatory work placement requirements are met through the on-the-job training component of the school-based apprenticeship.

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, Teaching and Educational Standards NSW (BOSTES). (Refer to the [Assessment Certification Examination \(ACE\) website](#).) There must be sufficient evidence that the student has:

- followed the course developed or endorsed by BOSTES
- 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

Plumbing 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 (BOSTES 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
CPCPCM2039A Carry out interactive workplace communication	core	10
CPCPCM2040A Read plans and calculate plumbing quantities	core	15
CPCPCM2041A Work effectively in the plumbing and services sector Prerequisite: CPCPCM2043A	core	15
CPCPCM2043A Carry out WHS requirements	core	20
CPCPCM2045A Handle and store plumbing materials Prerequisite: CPCPCM2043A	core	15
CPCPCM2046A Use plumbing hand and power tools Prerequisite: CPCPCM2043A	core	20
CPCPCM2047A Carry out levelling Prerequisite: CPCPCM2043A	core	10
CPCPCM2050A Mark out materials Prerequisite: CPCPCM2043A	core	15
CPCPCM2052A Weld using oxy-acetylene equipment Prerequisite: CPCPCM2043A	core	15
CPCPCM2053A Weld using manual metal arc welding equipment Prerequisite: CPCPCM2043A	core	25
CPCPCM2054A Carry out simple concreting and rendering Prerequisite: CPCPCM2043A	core	15
CPCPCM2055A Work safely on roofs Prerequisite: CPCPCM2043A	core	20
CPCPCM3021A Flash penetrations through roofs and walls Prerequisite: CPCPCM2043A	core	15
CPCPCM3022A Weld polyethylene and polypropylene pipes using fusion method Prerequisite: CPCPCM2043A	core	5

* See qualification packaging rules for specific details.

Unit code and title	Status for AQF VET qualification*	HSC indicative hours of credit
CPCPCM3023A <u>Fabricate and install non-ferrous pressure piping</u> Prerequisite: CPCPCM2043A	core	15
CPCPFS3031A <u>Fabricate and install fire hydrant and hose reel systems</u> Prerequisite: CPCPCM2043A	core	35
CPCPWT3020A <u>Connect and install storage tanks to a domestic water supply</u> Prerequisite: CPCPCM2043A	core	15
CPCPWT3021A <u>Set out and install water services</u> Prerequisite: CPCPCM2043A	core	25
CPCPWT3022A <u>Install and adjust water service controls and devices</u> Prerequisite: CPCPCM2043A	core	10
CPCPWT3023A <u>Install and commission water heating systems</u> Prerequisite: CPCPCM2043A	core	20
CPCPWT3025A <u>Install water pumpsets</u> Prerequisite: CPCPCM2043A	core	10
CPCPWT3026A <u>Fit off and commission heated and cold water services</u> Prerequisite: CPCPCM2043A	core	10
CPCPWT3027A <u>Connect irrigation systems from drinking water supply</u> Prerequisite: CPCPCM2043A	core	5
HLTFA211A <u>Provide basic emergency life support</u>	core	10
CPCCCM2008B <u>Erect and dismantle restricted height scaffolding</u> Prerequisite: CPCCOHS2001A	elective – listed	20
CPCCCM2010B <u>Work safely at heights</u> Prerequisite: CPCCOHS2001A	elective – listed	20
CPCCCM3001C <u>Operate elevated work platforms</u> Prerequisite: CPCCCM2010B , CPCCOHS2001A	elective – listed	10

* See qualification packaging rules for specific details.

Unit code and title	Status for AQF VET qualification*	HSC indicative hours of credit
CPC CST2005A Carry out load slinging of off-site materials Prerequisite: CPC COHS2001A	elective – listed	5
CPC PCM2048A Cut and join sheet metal Prerequisite: CPC PCM2043A	elective – listed	15
CPC PCM2049A Cut using oxy-LPG-acetylene equipment Prerequisite: CPC PCM2043A	elective – listed	10
CPC PDR2022A Install domestic treatment plants Prerequisite: CPC PCM2043A	elective – listed	15
CPC PFS3037A Install domestic and residential life safety sprinkler systems Prerequisite: CPC PCM2043A	elective – listed	20
CPC PMS3034A Install medical gas pipeline systems Prerequisite: CPC PCM2043A	elective – listed	15
CPC PWT3024A Install and maintain domestic water treatment equipment Prerequisite: CPC PCM2043A	elective – listed	15
CPC PWT3028A Install water service Prerequisite: CPC PCM2043A	elective – listed	10
CPC PWT3029A Install water pipe systems Prerequisite: CPC PCM2043A	elective – listed	15
RIICCM210A Install trench support	elective – listed	20
CPC COHS2001A Apply OHS requirements, policies and procedures in the construction industry	prerequisite	0
CPC CWHS1001 Prepare to work safely in the construction industry	Required for induction training for construction work to allow entry to a construction worksite	10

* See qualification packaging rules for specific details.

AQF VET qualification

Qualification packaging rules are contained in the [CPC08 Construction, Plumbing and Services Training Package](#) at <http://training.gov.au>.

In summary, to attain the full [CPC32413 Certificate III in Plumbing](#) students will need to achieve:

- a) Stream 1 Water (24 core and 5 elective units of competency from the water stream)
- b) Stream 2 Sanitary (6 core and 4 elective units of competency from the sanitary stream)
- c) 2 of the other 4 streams (Drainage, Mechanical services, Roofing, Gas services).

See qualification packaging rules for specific details.

Note, units of competency achieved in one stream count as credit for the same unit in the core or elective requirements for any other stream.

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 BOSTES 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 Plumbing HSC VET courses must meet the requirements of the VET Quality Framework, the [CPC08 Construction, Plumbing and Services Training Package](#) 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 BOSTES [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 BOSTES website at <http://rego.bostes.nsw.edu.au>.

HSC work placement requirements

Work placement is strongly recommended for the 240-hour Plumbing VET course and a mandatory HSC requirement for the 360-hour Plumbing VET course.

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 BOSTES [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, BOSTES 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 Plumbing (120 indicative hours) course or the Plumbing (240 indicative hours) course or the Plumbing (360 indicative hours) course.

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

Course exclusions for Plumbing 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 form and examples of possible scenarios, are detailed on the BOSTES 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 BOSTES 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, as well as [Collaborative Curriculum Planning](#) advice, on the BOSTES 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 BOSTES website at www.boardofstudies.nsw.edu.au/voc_ed/stage-5.html.