

## Telecommunications

**AQF VET qualification:** Certificate II in Telecommunications (ICT20210)

**Training Package:** Integrated Telecommunications (ICT10) version 1

BOS course name	Pattern of study	BOS course number	Schools Online (Administration) entry advice
Telecommunications (240 hours)	2 units x 2 years	58120	Enter this course number for both Preliminary (Year 11) and HSC (Year 12)

**Eligibility:** Nil

**Exclusions:** Telecommunications Networks Technology  
Telecommunications Technology

### HSC course requirements

#### Telecommunications (240 indicative hours)

- the possible qualification outcome is a Certificate II in Telecommunications (ICT20210)
- accredited for a total of 4 units at the Preliminary and/or HSC level
- attempt all core units of competency and elective units of competency to a minimum of 130 HSC indicative hours and to meet qualification packaging rules
- a minimum of 70 hours of work placement is strongly recommended
- mandatory work placement requirements are met through the on-the-job training component of the school-based traineeship.

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**

Telecommunications 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

### CORE

Unit code and title	Status for AQF VET qualification	HSC indicative hours of credit
<a href="#">BSBSUS201A</a> <a href="#">Participate in environmentally sustainable work practices</a>	core	15
<a href="#">ICTOHS2170A</a> <a href="#">Follow Occupational Health and Safety and environmental policy and procedures</a>	core	20
<a href="#">ICTTEN2007A</a> <a href="#">Use electrical skills in telecommunications work</a>	core	25
<a href="#">ICTTEN2105A</a> <a href="#">Install and test an internet protocol device in convergence networks</a>	core	25
<a href="#">ICTTEN2140A</a> <a href="#">Use hand and power tools</a>	core	25

**Total HSC indicative hours for core units of competency: 110**

### ELECTIVE

Unit code and title	Status for AQF VET qualification	HSC indicative hours of credit
<b>Workplace</b>		
<a href="#">ICTWOR2141A</a> <a href="#">Work effectively in a telecommunications technology team</a>	elective – Group A	15
<b>Cabling</b>		
<a href="#">ICTCBL2005A</a> <a href="#">Install customer cable support systems</a>	elective – Group B	35
<a href="#">ICTCBL2006A</a> <a href="#">Place and secure customer cable</a>	elective – Group B	15
<a href="#">ICTCBL2008A</a> <a href="#">Terminate metallic conductor customer cable</a>	elective – Group B	25
<a href="#">ICTCBL2065A</a> <a href="#">Splice and terminate optical fibre cable for carriers and service providers</a>	elective (max 2)	40
<b>Compliance</b>		
<a href="#">ICTCMP2022A</a> <a href="#">Organise and monitor cabling to ensure compliance with regulatory and industry standards</a>	elective – Group B	20
<b>Digital reception technology/Radio frequency networks</b>		
<a href="#">ICTRFN2164A</a> <a href="#">Install a terrestrial antenna</a> *	elective – Group B	20

\* This unit of competency requires permission of the school system to be selected as an elective unit of competency.

Unit code and title	Status for AQF VET qualification	HSC indicative hours of credit
<b>ICT use</b>		
<a href="#">ICAI2015B</a> <a href="#">Install software applications</a>	elective – Group B	20
<a href="#">ICAS2014B</a> <a href="#">Connect hardware peripherals</a>	elective – Group B	10
<b>Occupational health and safety</b>		
<a href="#">CPCCOHS1001A</a> <a href="#">Work safely in the construction industry</a>	elective – Group B	10
<b>IP networks</b>		
<a href="#">ICTTEN2207A</a> <a href="#">Install and configure a home or small office network</a>	elective – Group B	25
<a href="#">ICTTEN2208A</a> <a href="#">Install and configure a home or small office network</a>	elective – Group B	25
<a href="#">ICTTEN2209A</a> <a href="#">Build and maintain a secure network</a>	elective – Group B	25
<a href="#">ICTTEN2218A</a> <a href="#">Operate new media software packages</a>	elective – Group B	30
<b>Broadband and wireless networks</b>		
<a href="#">ICTBWN3082A</a> <a href="#">Perform tests on optical communication system and components</a>	elective (max 2)	40

## AQF VET qualification

Qualification packaging rules are contained in the [Integrated Telecommunications Training Package \(ICT10\)](#) at <http://training.gov.au>.

In summary, to attain Certificate II in Telecommunications (ICT20210) students must achieve 11 units of competency including:

- a) 5 core units of competency
- b) 6 elective units of competency:
  - 1 Group A workplace unit
  - 5 Group B general units (a maximum of 2 may be substituted with units of competency from any endorsed Training Package or accredited course at Certificate II or III level).

## 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](http://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 Telecommunications HSC VET courses must meet the requirements of the VET Quality Framework, the *Integrated Telecommunications Training Package (ICT10)* 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](http://www.boardofstudies.nsw.edu.au/manuals/#regaccredsystemsmanuals).

### HSC work placement requirements

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.

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

Course exclusions for Telecommunications 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](http://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](http://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](http://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](http://www.boardofstudies.nsw.edu.au/voc_ed/stage-5.html).