

VCE VET Integrated Technologies

Incorporating
22071VIC Certificate II in Integrated Technologies

January 2011

This program booklet is for implementation from 2011 and must be used in conjunction with the course accreditation document.

PROGRAM REVISION

This program replaces the VCE VET Electrotechnology program published in March 2005. This revision to the VCE VET Electrotechnology program is a consequence of the revision to the Victorian accredited curriculum.

For the VCE VET Integrated Technologies program, the identified sets of competencies have been grouped to form Units 1 and 2 and a Units 3 and 4 sequence for recognition purposes. The recognition status of VCE VET programs and the requirements of assessment for study score purposes are outlined in this program extract.

ARRANGEMENTS FOR CONTINUING STUDENTS

Students enrolled in 21583VIC Certificate II in Electrotechnology (Shared Technology) in 2010 or earlier, may complete their program in 2011 under the arrangements outlined in the *VCE VET Electrotechnology Program Booklet* published in March 2005.

No new students may enrol in 21583VIC Certificate II in Electrotechnology (Shared Technology) in 2011 and beyond.

STUDENTS COMMENCING IN 2011 AND BEYOND

All students commencing 22071VIC Certificate II in Integrated Technologies in 2011 and beyond must comply with the requirements outlined in this extract. A study score for VCE VET Integrated Technologies will be available from 2012.

QUALIFICATION DETAILS

The following information needs to be read in conjunction with the course accreditation document for 22071VIC Certificate II in Integrated Technologies.

The Certificate II in Integrated Technologies consists of:

- 4 core units of competence and
- elective units of competence equivalent to a minimum of 150 hours from at least two specialisations (note: elective units that appear in more than one area of specialisation may not be counted as two electives).

On successful completion of this program students are eligible for the award of Certificate II in Integrated Technologies.

VCE VET PROGRAM DETAILS

AIMS

The VCE VET Integrated Technologies program aims to provide learners with the skills required by industries which broadly encompass electrotechnology, telecommunications, information technology and security systems to:

- continue vocational training
- gain work and further training through an apprenticeship, traineeship or cadetship
- find employment in fields such as electronics, entertainment, wireless and security systems, technical support for computer and electronic equipment, energy generation, sustainability, computer controlled applications, electronic equipment, computer network support or communications applications.

PROGRAM STRUCTURE

The VCE VET Integrated Technologies program consists of:

- 4 core units of competence and
- elective units of competence equivalent to a minimum of 150 hours from at least two specialisations (note: elective units that appear in more than one area of specialisation may not be counted as two electives).

On successful completion of the VCE VET Integrated Technologies program students are eligible for:

- the award of 22071 VIC Certificate II in Integrated Technologies
- recognition of up to two units at Units 1 and 2 level and a Units 3 and 4 sequence.

PROGRAM DURATION

The VCE VET Integrated Technologies program has a nominal duration of 390 hours.

The nominal hours attached to each unit of competence are calculated by Skills Victoria as an indicator of the training time required to become competent. They are a guide only, and the actual duration of the training is affected by students' readiness to be assessed for the particular unit of competence.

It is important to note that the allocation of nominal hours for each unit of competence is intended to cover both delivery and assessment.

STUDY SCORE

From 2012, a study score will be available for VCE VET Integrated Technologies. To be eligible for a study score students must:

- achieve all the units of competence designated as the scored Units 3 and 4 sequence
- be assessed in accordance with the tools and procedures specified in the *VCE VET Assessment Guide* and program specific scored assessment advice published on the VCAA website in February 2012: www.vcaa.vic.edu.au/vet/programs/integratedtech/integratedtech.html
- undertake an examination in the end-of-year examination period, based on the underpinning knowledge and skills in the units of competence advised by the VCAA.

VCE VET PROGRAM STRUCTURE

22071VIC CERTIFICATE II IN INTEGRATED TECHNOLOGIES

VCE VET UNITS 1 AND 2		
Code	Unit of competence	Nominal hours
Compulsory units:		
UEENEEE048C	Carry out routine work activities in an electrotechnology environment	40
VBP118	Carry out a shared technology project	60
Elective units:		
Select a minimum of 90 hours from the elective bank (listed on pages 5–6)		90
Total for Units 1 and 2		190
VCE VET UNITS 3 AND 4		
Code	Unit of competence	Nominal hours
Compulsory units:		
*UEENEEE079A	Identify and select components, accessories, materials for electrotechnology work activities	20
UEENEEE044B	Apply technologies and concepts to electrotechnology work activities	120
Elective units:		
Select a minimum of 60 hours from the elective bank (listed on pages 5–6)		60
Total for Units 3 and 4		200
Total for Units 1 to 4		390

Note: The following unit of competence is a prerequisite:

*UEENEEE048C must be completed prior to UEENEEE079A.

Elective Bank: Elective units are to be chosen from at least two specialisations. These are to be delivered across Units 1 to 4 as indicated in the VCE VET program structure on page 4.

Code	Unit of competence	Nominal hours
Computer System Network Stream		
ICAI3101B	Install and manage network protocols	40
ICAS3024B	Provide basic system administration	20
*ICAS3032B	Provide network systems administration	20
VBP119	Perform basic network and computer assembly	30
VBP120	Perform basic network and computer maintenance	30
VBP121	Install and configure basic network and computer operating systems	40
VBP122	Install and test a home entertainment system	30
VPAU645	Install and configure a home or small office network	60
**VPAU646	Install and configure a small to medium business network	60
Wireless Communications Stream		
VBP123	Build a small wireless LAN	30
VBP124	Install and test a wireless intercom system	30
VBP125	Conduct site survey for a wireless network	30
VBP126	Set up and operate a wireless communication link	30
VBP127	Install communications antennae	30
Energy Generation Stream		
VBP136	Operate a small power supply system	30
VBP137	Assemble and connect an extra low voltage battery power source	30
VBP138	Maintain rechargeable battery systems	30
VBP139	Identify and locate building blocks of a centralised power generation system	30
VBP140	Set up an extra low voltage emergency power supply system (not exceeding 32v)	30
VBP141	Install a sustainable extra low voltage energy supply system	30
Robotics and Embedded Controllers Stream		
VBP128	Set up and test an embedded control system	30
VBP129	Test and verify correct operation of a <i>by-wire</i> control system	30
VBP130	Implement a digital circuit using a programmable logic device (PLD)	30
VBP131	Construct and configure a basic robotic system	30
VBP132	Program a basic robotic system	30
Fibre Optics Stream		
VU20177	Plan and build a system using fibre optic equipment	30
VU20178	Use fibre optic equipment in engineering technology	30
VU20179	Use fibre optic equipment in communication technology	30

Note: The following units of competence are prerequisites:

*UEENEEE048C must be completed prior to UEENEEE079A.

** VPAU645 must be completed prior to VPAU646.

Elective Bank (cont.): Elective units are to be chosen from at least two specialisations. These are to be delivered across Units 1 to 4 as indicated in the VCE VET program structure on page 4.

Code	Unit of competence	Nominal hours
Telecommunications Stream		
ICTTC053D	Train customers	40
ICTTC136C	Install, maintain and modify customer premises communication cabling – ACMA restricted rule	60
ICTDRE3156A	Install digital reception equipment	20
ICTCBL2162A	Install a cable lead in	30
Security Systems Stream		
CPPSEC2021A	Install security equipment and systems	40
CPPSEC2026A	Perform routine maintenance on security equipment and system	32
CPPSEC2023A	Install CCTV equipment and system	20
ICTTC136C	Install, maintain and modify customer premises communication cabling – ACMA restricted rule	60