ICT50210

Diploma of Telecommunications Network Engineering

with Industry Certifications & Internship Offer
An Industry Oriented approach

This is an intensive practical hands-on program designed to assist ICT graduates, professionals and those seeking a career change to obtain high level ICT skills in an intensive mode.

Students will participate in more than 100 practical Cisco and Microsoft Lab Activities using Official Microsoft Curriculum and Cisco networking environment.

This program will also provide a practical approach to ICT project management and students will have the opportunity to participate in a number of project activities.

Student ACS Membership

Our students will receive one year membership of Australian Computer Society Student Membership.

Microsoft IT Academy Program Member

Abbey College Australia is an official Microsoft Academy member. This means our students can enjoy Microsoft IT Academy benefits, such as software licensing, E-learning and Microsoft digital resources.

On Campus Pearson VUE Exam Centre

Our students can take undertake both MCSA and Cisco CCNA exams conveniently right on our campus free of charge.

Access to a unique Telecom Lab

Students will have dedicated access to a full-set of Cisco hands-on lab equipment for CCNA as well as an enterprise-grade physical servers.

Internship Option

In order to provide valuable industry experience, we are offering a 3-month ICT work placement option to eligible students.

One Year Study Option

A Fast Track program is not for everyone. So, we are offering an alternative duration for those who wish to study a one year course can apply to enrol in our standard program.

Fast Track Training Option

Eligible candidates can enrol in one of our 15 week, 5 day programs. The Fast Track program is designed to help the ICT jobseeker to complete the course in a short period of time.
2016 INTAKE DATES

<table>
<thead>
<tr>
<th>Delivery Duration</th>
<th>Application open</th>
<th>Application closed</th>
<th>Commencement date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast Track (15 weeks)</td>
<td>01/02/2016</td>
<td>29/02/2016</td>
<td>14/03/2016</td>
</tr>
<tr>
<td>Fast Track (15 weeks)</td>
<td>14/03/2016</td>
<td>17/04/2016</td>
<td>25/04/2016</td>
</tr>
<tr>
<td>Fast Track (15 weeks)</td>
<td>23/05/2016</td>
<td>26/06/2016</td>
<td>04/07/2016</td>
</tr>
<tr>
<td>One year program</td>
<td>27/06/2016</td>
<td>31/07/2016</td>
<td>08/08/2016</td>
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GENERAL DESCRIPTION
This qualification reflects the role of individuals involving a high level of specialist technical skills and knowledge in telecommunications and IT networks using internet protocol (IP) systems who can:

- Install, test and commission data communications networks in medium to large enterprises using Next Generation Networks (NGN) technologies;
- Provide specialist technical support in monitoring and administering the installation and upgrade of IT networks;
- Cover local area networks (LAN) and wide area networks (WAN), IP based protocol systems, secured networks, wireless and wired line networks, databases, routers, switches and servers;
- Install and maintain IP based network telecommunications equipment.

This course focuses on planning, designing, deploying, configuring, managing and monitoring of IP-based IT network environment.

ACCREDITATION
This is a nationally recognised course and part of ICT10 Integrated Telecommunications Training Package. Students who successfully complete all the assessments will be awarded with ICT50210 Diploma of Telecommunications Network Engineering.

DELIVERY STRUCTURE
This is a practical hands-on program. Students will participate in more than 100 practical Cisco and Microsoft Lab Activities using Official Microsoft Curriculum and Cisco networking environment in a number of project management and soft skills development activities.

COURSE DURATION
The duration of this program varies based on the participants’ background and learning abilities, as follows:

- **Fast Track program:**
  Candidates with appropriate technical background who are willing to participate in 5 days per week program will be provided with an option to enrol in a 15 weeks face to face training.

- **Standard program:**
  Candidates who do not have a technical background can apply to enrol in our standard 32 weeks face to face program.
DELIVERY LOCATION
The course will be delivered at Abbey College Australia, Level 2, 770-772 George Street, Sydney, New South Wales 2000.

ENTRY REQUIREMENTS
There are no entry requirements for this qualification. However, those candidates who do not have a Certificate IV in Telecommunication Network Engineering must complete "QASA1503 - Diploma of Telecommunications Network Engineering Applicant Suitability Assessment".

PATHWAYS INTO THE QUALIFICATION
Preferred pathways for candidates considering this qualification include:

- Achieving the ICT40210 Certificate IV in Telecommunications Network Engineering or another relevant accredited Training Package qualification or relevant accredited course; or
- Providing evidence of competency in the core units required for the ICT40210 Certificate IV in Telecommunications Network Engineering or equivalent units with proven vocational experience; or
- With substantial vocational experience but without a formal qualification; or
- Providing evidence of competency or possession of an ICT degree, which is completed in the last 5 years; and/or
- Providing evidence of or hold one or more equivalent professional certificate(s) in Networking such as Cisco CCENT, CCNA, CCNP, Microsoft MCITP, MCSA, MCSE, CompTIA Network+, etc.

ONE YEAR UNIVERSITY ADVANCE STANDING
Graduates of the program will be eligible to enrol in a wide range of Advanced Diploma and Bachelor of IT & Telecommunication. Most universities will offer equal to one year advance standing to the graduates. Abbey College Australia has advance standing arrangement with the following universities:

<table>
<thead>
<tr>
<th>Australian Catholic University</th>
<th>Bachelor of Information Technology</th>
<th>80 credit points guaranteed out of the total 240 points</th>
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</thead>
<tbody>
<tr>
<td>University of Canberra</td>
<td>Bachelor of Information Technology</td>
<td>24 credit points for first year study in a three year degree</td>
</tr>
<tr>
<td>(Liverpool Campus)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southern Cross University</td>
<td>Bachelor of Information Technology</td>
<td>8 units of credit of a total of 24 units (33% of the course)</td>
</tr>
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</table>
INTERNSHIP OPTION

In order to provide valuable industry experience, we are offering a 3-month ICT work placement option to eligible students. Eligible students can apply to complete partial assessment of communication and organisation skills required by "Unit ICTTEN5200A" at workplace.

Alternatively, students can complete the course by participating in workplace-simulated activities in a classroom setting.

The following are the internship eligibilities conditions that have to be met by students who want to participate in work placement:

<table>
<thead>
<tr>
<th>Commitment and professional conduct</th>
<th>Technical competency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program participation</strong> - Punctual attendance in at least 85% of the scheduled sessions &amp; <strong>Professional presentation</strong> - Awareness of clean, neat, tidy and appropriate dress code as would be expected by the workplace (e.g. thongs or singlets does not constitute a professional dress code)</td>
<td><strong>Vendor Exams</strong> - Successful completion of either MCSA or CCNA exams &amp; <strong>ICT2010 assessments</strong> - Successful completion of ICT2010 scheduled assessments</td>
</tr>
</tbody>
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FACILITIES

The general facilities at Abbey College Australia includes large classrooms with layout designed for both lecture and discussion format. All classrooms are equipped with audio-visual presentation hardware and software. All students also have access to wireless network, printing and library facilities.

In addition, ICT50210 Diploma of Telecommunications Network Engineering students have access to the following facilities:

- Microsoft IT Academy benefits for students, such as software licensing and resources.
- Every student will receive their Cisco and Microsoft official course books and courseware for all units of study.
- Exclusive access to full sets of Microsoft Official Course labs run on Hyper-V for every mapped course.
- Individual students will have dedicated access to an enterprise-grade server with Windows Server 2012 DataCenter Edition Operating System and Hyper-V Virtualisation installed on each server.
- Full-set of dedicated Cisco hands-on labs equipment for CCNA.
  
  Each set is installed on an independent equipment rack, which includes:
  - at least 3 Cisco Integrated Services Routers.
  - at least 3 Cisco Catalyst Switches.
  - all Ethernet, serial, console, and power cables required for the completion of the labs.
QUALIFICATION REQUIREMENTS
To receive this qualification, learners must demonstrate competency in all of the 4 core competencies covered by the training program and 6 elective competencies.

<table>
<thead>
<tr>
<th>No</th>
<th>Unit</th>
<th>Description</th>
<th>Core/Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BSBPMG522</td>
<td>Undertake project work</td>
<td>Core</td>
</tr>
<tr>
<td>2</td>
<td>BSBSUS501</td>
<td>Develop workplace policy and procedures for sustainability</td>
<td>Core</td>
</tr>
<tr>
<td>3</td>
<td>ICTPMG5031A</td>
<td>Prepare a project brief</td>
<td>Core</td>
</tr>
<tr>
<td>4</td>
<td>ICTTENS5037A</td>
<td>Design a telecommunications project</td>
<td>Core</td>
</tr>
<tr>
<td>5</td>
<td>ICTICT508</td>
<td>Evaluate vendor products and equipment</td>
<td>Elective</td>
</tr>
<tr>
<td>6</td>
<td>ICTNWK516</td>
<td>Determine best-fit topology for a local network</td>
<td>Elective</td>
</tr>
<tr>
<td>7</td>
<td>ICTTENS147A</td>
<td>Administer a data communications network</td>
<td>Elective</td>
</tr>
<tr>
<td>8</td>
<td>ICTSUS5187A</td>
<td>Implement server virtualisation for a sustainable ICT system</td>
<td>Elective</td>
</tr>
<tr>
<td>9</td>
<td>ICTTENS5200A</td>
<td>Install, configure and test a local area network switch</td>
<td>Elective</td>
</tr>
<tr>
<td>10</td>
<td>ICTTENS5201A</td>
<td>Install, configure and test a server</td>
<td>Elective</td>
</tr>
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</table>

The electives are selected for institute-based (face to face) training and suitable for an IP based network installer. These may vary depend on the work outcomes and industry requirements.

MAPPED INDUSTRY/VENDOR COURSES AND QUALIFICATIONS
This program is designed to prepare the students for the ICT industry. Students are required to complete the relevant training that is directly mapped to the vendors’ qualifications. In addition, they are required to study and expected to complete the following exams as part of this program. Students can participate in these exams at no additional cost. However, students who fail one or more of these exams may be required to pay additional fees to re-sit the exam.

The following table shows the mapped Microsoft and Cisco courses/modules that student will learn in this course with their corresponding exams and qualifications.

<table>
<thead>
<tr>
<th>Relevant Training</th>
<th>Relevant Exam</th>
<th>Relevant Qualification</th>
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<tbody>
<tr>
<td>Microsoft MOC6421</td>
<td>70-642</td>
<td>Microsoft Certified Solutions Associate (MCSA)</td>
</tr>
<tr>
<td>Microsoft MOC6425</td>
<td>70-640</td>
<td>Microsoft Certified Solutions Associate (MCSA)</td>
</tr>
<tr>
<td>Microsoft MOC6426</td>
<td>70-646</td>
<td>Microsoft Certified Solutions Associate (MCSA)</td>
</tr>
<tr>
<td>Cisco ICND1</td>
<td>200-120</td>
<td>Cisco Certified Network Associate (CCNA)</td>
</tr>
<tr>
<td>Cisco ICND2</td>
<td></td>
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</table>

Students who successfully complete all of the Diploma requirements and all vendor exams, are expected to obtain the following qualifications:

- Nationally recognised ICT50210 Diploma of Telecommunications Network Engineering from Abbey College Australia;
- Microsoft Certified Solutions Associate (MCSA) from Microsoft; and/or
- Cisco Certified Network Associate (CCNA) from Cisco.

The main goal of this approach is to significantly enhance the readiness and chances of graduates of this course to work and perform well in the industry immediately after they finish their course.
TEACHING METHODS
This course will be delivered using a combination of lectures, hands-on labs, handouts, tutorials, practical exercises, student presentations and project team-work. Students will receive resources and an official vendor textbook for each mapped course. Students are required to complete some of the activities in their own time.

ASSESSMENT METHODS
Assessments are both formative and summative. Evidence will be gathered based on a combination of theoretical and practical assessments. Assessment tools are designed with a holistic approach and mapped to industry/vendor qualifications (Microsoft and Cisco).

Methods of assessments include:
- Written assessments;
- Hands-on labs;
- Practical/demonstration activities;
- Team-work in telecommunication/networking projects; and
- Group and individual presentations.

RPL (RECOGNITION OF PRIOR LEARNING)
Students can obtain advanced standing in the training program on the basis of current competency. They need to provide evidence that they already have achieved the targeted competencies by, for example:
- Providing evidence of completion of related training programs or courses and mapping them to the target competencies; or
- Demonstrating them in a workplace or simulated workplace environment.

Please note:
- Payment of RPL assessment fee will be required ($550 per unit and is non-refundable).
- RPL application should be submitted with the enrolment form prior to enrolment.

VET FEE- HELP EQUAL FULL TIME STUDENT LOAD (EFTSL)
This course has been developed over one year (comprising of 10 units of competency).

- The 32 week course total EFTSL is 0.6. The EFTSL is 0.2 per unit of study.
- The 15 week course total EFTSL is 0.25. The EFTSL is 0.08 per unit of study.