

ICT10 Integrated Telecommunications Skill Sets

Skill Set List

Skill sets are designed to be available to industry to train participants in a particular skill set that contains competencies that will be awarded with a Statement of Attainment and are able to be counted towards a qualification.

Readers should ensure that they have also read the part of the Training Package that outlines licensing and regulatory requirements.

Cabler Registration Skill Set

Target Group	This skill set is for customer premises cablers working in the telecommunications industry.
Units	ICTCBL2136A Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule ICTCBL2137A Install, maintain and modify customer premises communications cabling: ACMA Open Rule ICTCBL2139A Apply safe technical work practices for Cabling Registration ICTOHS2170A Follow OHS and environmental policy and procedures ICTTEN2140A Use hand and power tools
Pathway	This skill set provides credit towards ICT20210 Certificate II in Telecommunications.
Suggested form of words for Statement of Attainment	These units of competency meet the Australian Communications and Media Authority requirements for registration as a cabler. Cablers work on installation of telecommunications copper cable, optical fibre and coaxial cable on customer premises.

Radio Technician Skill Set

Target Group	This skill set is for new entrants learning radio fundamentals.
Units	ICTOHS2170A Follow OHS and environmental policy and procedures ICTRFN3055A Install a radio communications antenna and feedline ICTRFN3155A Construct and test a simple radio communications device ICTTEN2007A Use electrical skills in telecommunications work ICTTEN3056A Install telecommunications network equipment ICTTEN4081A Locate and diagnose electronic faults ICTTEN4102A Repair communication system faults
Pathway	This skill set provides credits towards ICT40310 Certificate IV in

	Telecommunications Radio Communications.
Suggested form of words for Statement of Attainment	<p>These units of competency meet industry requirements in applying radio communications technician fundamentals.</p> <p>They can install and maintain basic radio communications networks for a range of industries</p>

Access Network Skill Set

Target Group	This skill set is for carriers and contractors in the access network performing core work on both sides of the network boundary.
Units	<p>ICTCBL2008A Terminate metallic conductor customer cable</p> <p>ICTCBL2017A Alter services to existing cable system</p> <p>ICTCBL2136A Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule</p> <p>ICTCBL2137A Install, maintain and modify customer premises communications cabling: ACMA Open Rule</p> <p>ICTCBL2139A Apply safe technical work practices for Cabling Registration</p> <p>ICTOHS2170A Follow OHS and environmental policy and procedures</p> <p>ICTTEN3056A Install telecommunications network equipment</p> <p>ICTTEN3104A Maintain an electronic system</p>
Pathway	This skill set provides credit towards ICT20310 Certificate II in Telecommunications Cabling and the ICT30310 Certificate III in Telecommunications Cabling.
Suggested form of words for Statement of Attainment	<p>These units of competency meet industry requirements for understanding telecommunications network principles.</p> <p>Cabler installers work on installation and maintenance of telecommunications copper cable, optical fibre and coaxial cable and associated access network equipment on both sides of the network boundary.</p>

Digital Reception Technology Skill Set

Target Group	This skill set prepares individuals for entry into the digital and subscription TV and related sectors of the telecommunications industry.
Units	<p>ICTTEN2140A Use hand and power tools</p> <p>ICTDRE3156A Install digital reception equipment</p> <p>ICTDRE3157A Locate and rectify digital reception equipment faults</p> <p>ICTOHS2170A Follow OHS and environmental policy and procedures</p>
Pathway	This skill set provides credit towards ICT20410 Certificate II in

	Telecommunications Digital Reception Technology.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for installation of a limited range of digital reception equipment for either a customer or an enterprise. They install and maintain equipment for free-to-air or subscription TV in the customer environment.

Broadband Skill Set

Target Group	This skill set is for cablers who have an open ACMA Cabler Provider Registration wanting to work in the telecommunications industry dealing with broadband implementation.
Units	<p>ICTCBL2068A Install a telecommunications service to a building</p> <p>ICTCBL3010A Install and terminate optical fibre cable on customer premises</p> <p>ICTCBL3013A Perform cable and system test on customer premises</p> <p>ICTOHS2170A Follow OHS and environmental policy and procedures</p> <p>ICTOHS2153A Work safely near power infrastructure</p> <p>ICTRFN3055A Install a radio communications antenna and feedline</p> <p>ICTCBL2065A Splice and terminate optical fibre cable for carriers and service providers</p>
Pathway	This skill set provides credit towards ICT20310 Certificate II in Telecommunications Cabling and the ICT30310 Certificate III in Telecommunications Cabling.
Suggested form of words for Statement of Attainment	<p>These units of competency meet telecommunications industry requirements for installers providing infrastructure in broadband services on the carrier and customer side of the network boundary.</p> <p>This person works on optical fibre or coaxial cable from the pole or pit to the ONT and on satellite dish connections and into the customer premises</p>

Wireless LAN and IP Network installation Skill Set

Target Group	This skill set is for experienced personnel in the installation of modern ICT networks using converging technologies of wireless and IT networks.
Units	<p>ICAB4235B Build basic perimeter security into a network</p> <p>ICAB4240C Build an enterprise wireless network</p> <p>ICTOHS2170A Follow OH&S and environmental policy and procedures</p>

	ICTTEN3056A Install telecommunications network equipment ICTTEN4198A Install, configure and test an internet protocol network ICTTEN4199A Install, configure and test a router
Pathway	This skill set provides credit towards ICT40210 Certificate IV in Telecommunications Network Engineering qualification.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for work in the installation of a wireless LAN with IP security and associated networking elements in the practical application of converging technologies.

Domestic Digital Television Antenna Installation Skill Set

Target Group	This skill set is for personnel wanting to install basic terrestrial antenna system in single dwelling installation for the digital reception telecommunications industry. This set of units has been approved by the Department of Broadband for the antenna installer endorsement.
Units	ICTCBL3011A Install and terminate coaxial cable ICTDRE3156A Install digital reception equipment ICTOHS2170A Follow OHS and environmental policy and procedures ICTRFN2164A Install a terrestrial antenna ICTRFN4095A Conduct radio frequency measurements ICTTEN2140A Use hand and power tools
Pathway	This skill set provides credit towards ICT20410 Certificate II in Telecommunications Digital Reception Technology and the ICT30410 Certificate III in Telecommunications Digital Reception Technology qualifications.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for antenna installation and prepare the participant in the practical application of providing digital reception services. They install and maintain digital reception equipment for free-to air and subscription TV in customer and enterprise networks.

Commercial Digital Television Antenna Systems Installation Skill Set

Target Group	This skill set is for experienced personnel wanting to install commercial antenna installation for the digital reception telecommunications industry. The more complex antenna installations include Master Antenna TV (MATV) and Communal Antenna TV (CATV) systems This set of units has been approved by the Department of
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	Broadband for the antenna installer endorsement.
Units	ICTCBL2017A Alter services to existing cable system ICTCBL3015A Locate and identify cable system faults ICTDRE3165A Install a complex digital reception system
Pathway	This skill set provides credit towards ICT20410 Certificate II in Telecommunications Digital Reception Technology and the ICT30410 Certificate III in Telecommunications Digital Reception Technology qualifications.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for antenna installation and prepare the participant in the practical application of providing digital reception services. They install and maintain digital reception equipment for free-to air and subscription TV in customer and enterprise networks.

Satellite Digital Television Antenna Installation Skill Set

Target Group	This skill set is for experienced personnel in the installation of free-to-air satellite antenna systems for the digital reception telecommunications industry. This unit has been approved by the Department of Broadband for the antenna installer endorsement.
Units	ICTRFN2163A Install a satellite antenna
Pathway	This skill set provides credit towards ICT20410 Certificate II in Telecommunications Digital Reception Technology and the ICT30410 Certificate III in Telecommunications Digital Reception Technology qualifications.
Suggested form of words for Statement of Attainment	This unit of competency meets industry requirements for antenna installation and prepare the participant in the practical application of providing digital reception services. They install and maintain digital reception equipment for free-to air and subscription TV in customer and enterprise networks.

Fibre To The Premises (FTTP) Installation Skill Set (Base level installers)

Target Group	This skill set is for personnel in the installation of optical FTTx network equipment for national broadband implementation.
Units	ICTBWN3088A Install optical fibre splitters in fibre distribution hubs ICTBWN3090A Install lead-in module and cable for fibre to the premises ICTBWN3100A Work safely with live fibre to test and commission a fibre to the x installation

	ICTCBL2017A Alter services to existing cable system ICTOHS2170A Follow OHS and environmental policy and Procedures
Pathway	This skill set provides credit towards ICT30610 Certificate III in Broadband and Wireless Networks and ICT30110 Certificate III in Broadband and Wireless Networks Technology qualifications.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for base level installers in the installation of FTTP equipment. It prepares the participant to work in the practical application of optical technologies for the NBN implementation from the carrier network to the ONT at the network boundary.

Fibre To The Premises (FTTP) Test and Commission Skill Set (Advanced level installers)

Target Group	This skill set is designed to develop relevant experienced personnel in the testing and commissioning of optical FTTx network equipment for national broadband implementation.
Units	ICTBWN3082A Perform tests on optical communication system and components ICTBWN3100A Work safely with live fibre to test and commission a fibre to the x installation ICTCBL2017A Alter services to existing cable system ICTOHS2170A Follow OHS and environmental policy and procedures ICTOPN4115A Install and test a dense wavelength division multiplexing system
Pathway	This skill set provides credit towards ICT30110 Certificate III in Broadband and Wireless Networks Technology and ICT30610 Certificate III in Broadband and Wireless Networks qualifications.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the end to end testing/commissioning from Exchange/ Headend to FDH and FDH to ONT of FTTP equipment. It prepares the participant to work in the practical application of optical technologies for the NBN implementation from the carrier network to the ONT.

Installing NBN Wireless and infrastructure Skill Set

Target Group	This skill set is for experienced personnel in the installation of optical FTTx network and wireless equipment for national broadband implementation in the carrier access network.
Units	ICTBWN3088A Install optical fibre splitters in fibre distribution

	<p>hubs</p> <p>ICTBWN3090A Install lead-in module and cable for fibre to the premises</p> <p>ICTBWN3100A Work safely with live fibre to test and commission a fibre to the x installation</p> <p>ICTCBL2017A Alter services to existing cable system</p> <p>ICTOHS2153A Work safely near power infrastructure</p> <p>ICTOHS2170A Follow OHS and environmental policy and procedures</p> <p>ICTRFN3055A Install a radio communications antenna and feedline</p> <p>ICTRFN3146A Install WiMAX customer premises equipment broadband wireless access equipment</p>
Pathway	This skill set provides credit towards ICT30110 Certificate III in Broadband and Wireless Networks Technology and ICT30610 Certificate III in Broadband and Wireless Networks qualifications.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the installation of FTTP equipment and prepare the participant to work in the practical application of optical and wireless broadband technologies for the NBN implementation of carrier network.

Basic Telecommunications Rigging Installation Skill Set

Target Group	This skill set is for designed for personnel to work in the installation of telecommunications network infrastructure on structures.
Units	<p>ICTCBL2065A Splice and terminate optical fibre cable for carriers and service providers</p> <p>ICTRFN2163A Install a satellite antenna</p> <p>ICTTCR2188A Use rigging practices and systems on telecommunications network structures</p> <p>ICTTCR2189A Use operational safety in a telecommunications rigging environment</p> <p>ICTTCR2190A Use safe rigging practices to climb and perform rescues on telecommunications network structures</p> <p>ICTTEN2105A Install and test an internet protocol device in convergence Networks</p>
Pathway	This skill set provides credit towards ICT20510 Certificate II in Telecommunications Rigging Installation qualification.
Suggested form of words for Statement of	These units of competency meet industry requirements for the installation of a limited range of telecommunications network equipment and prepare the participant to work in the practical

Attainment	application of installing radio network equipment for carriers on structures.
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Advanced Telecommunications Rigging Installation Skill Set

Target Group	This skill set is for experienced personnel in basic rigging practices and the installation of telecommunications network infrastructure on structures.
Units	ICTTCR3062A Build a telecommunications radio structure ICTTCR3191A Install radio plant and equipment on telecommunications structures ICTTCR3192A Protect against electromagnetic radiation and system hazards when working on telecommunications radio sites ICTTEN3056A Install telecommunications network equipment
Pathway	This skill set provides credit towards ICT30510 Certificate III in Telecommunications Rigging Installation qualification.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the installation of a more advanced range of telecommunications network equipment and prepare the participant to work in the practical application of radio network equipment for carriers on structures.

IP Convergence installations for home and SME Skill Set

Target Group	This skill set is for to develop personnel to work in the installation of modern telecommunications networks using IP converging technologies in small to medium enterprises.
Units	ICTTEN2105A Install and test an internet protocol device in convergence networks ICTTEN2207A Install and configure a home or small office network ICTTEN2208A Install and configure a small to medium business network ICTTEN2209A Build and maintain a secure network ICTTEN2218A Operate new media software packages
Pathway	This skill set provides credit towards ICT20210 Certificate II in Telecommunications qualification.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the installation of IP networking telecommunications equipment. Participants can work in the practical application of converging technologies to install and maintain IP networks with security in

	the home and small to medium enterprise networks.
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Convergent Technology installations for home and SME Skill Set

Target Group	This skill set is for experienced personnel in the installation of modern ICT networks using IP converging technologies in home and small to medium enterprises.
Units	ICTTEN4050A Install and configure a wireless mesh network ICTTEN4126A Install and configure internet protocol TV in a home network ICTTEN4198A Install, configure and test an internet protocol network ICTTEN4202A Install and test an radio frequency identification system ICTTEN4229A Design, install and configure a customer smart grid network
Pathway	This skill set provides credit towards ICT40210 Certificate IV in Telecommunications Network Engineering qualification.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the installation of IP networking telecommunications equipment. Participants can work in the practical technology convergence application to install and maintain emerging technology networks in the home and small to medium enterprises

Basic ICT Sustainability Skill Set

Target Group	This skill set is for experienced personnel in the installation of modern ICT networks using technologies to reduce energy consumption for sustainability.
Units	ICTSUS4183A Install and test renewable energy system for ICT networks ICTSUS4184A Install and test power saving hardware. ICTSUS4185A Install and test power management software
Pathway	This skill set provides credit towards ICT40210 Certificate IV in Telecommunications Network Engineering qualification.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the installation of a limited range of ICT network equipment. It prepares the participant to work in the practical application of technologies for sustainability in reducing energy consumption of ICT networks.

Advanced ICT Sustainability Skill Set

Target Group	This skill set is for experienced personnel in the installation of modern ICT networks using IP convergence and virtualisation technologies.
Units	ICTSUS4186A Install thin client applications for power over ethernet ICTSUS5187A Implement server virtualisation for a sustainable ICT system BSBSUS501A Develop workplace policy and procedures for sustainability
Pathway	This skill set provides credit towards ICT50210 Diploma of Telecommunications Network Engineering qualification.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the installation of specialised ICT network equipment. It prepares the participant to work in the practical application of technologies for sustainability in virtualisation of ICT networks.

ICT Sustainability Planning and Designing Skill Set

Target Group	This skill set is for experienced personnel who want to integrate sustainability in the planning and design of ICT networks
Units	ICTSUS6233A Integrate sustainability in ICT planning and design projects ICTSUS6234A Establish a business case for sustainability and competitive advantage in ICT projects ICTSUS7235A Use ICT to improve sustainability outcomes ICTSUS7236A Manage improvements in ICT sustainability
Pathway	This skill set provides credit towards ICT60110 Advanced Diploma of Optical Networks, ICT60210 Advanced Diploma of Telecommunications Network Engineering and ICT70110 Vocational Graduate Certificate of Telecommunications Network Engineering qualifications.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the integration of sustainability practices in the planning and design of ICT networks. It prepares the participant to justify and plan practical applications of sustainability in ICT network design in a competitive and innovative environment.

Technical Help Desk Support Skill Set

Target Group	This skill set is for experienced personnel in the installation and maintenance of customer access networks and customer infrastructure including equipment and cabling.
Units	ICAS3031B Provide advice to clients ICTWOR3231A Resolve technical enquiries using multiple information systems ICTWOR3232A Collect and analyse technical information
Pathway	This skill set provides credit towards ICT30210 Certificate III in Telecommunications and ICT30310 Certificate III in Telecommunications Cabling qualifications.
Suggested form of words for Statement of Attainment	These units of competency meet industry requirements for the installation and maintenance of specialised telecommunications network equipment and cabling. It prepares the participant to work in the practical application of technical support of ICT networks.