TECHNOLOGIES: DESIGN AND TECHNOLOGIES

You have:	TASC subjects	May lead to:
No previous experience	**Building Industry Basics**	VET Trades program Certificate II in Engineering Pathways Certificate II in Applied Fashion and Design Design and Production 2
	Workshop Techniques - Introduction 1	
	Automotive and Mechanical Technologies 2	Certificate II in Automotive Vocational Preparation
An 'A/B' (or 'C' in consultation with teachers) in Australian Curriculum English or Mathematics	**Aviation Studies 2**	Civil Aviation Safety Authority qualification
Basic computer skills	**Computer Graphics and Design - Foundation 2**	Further study
No previous experience	**Design and Production 2**	Object Design (University College Program) Housing and Design 3 Student Directed Inquiry 3
	Electronics - Foundation 2	Electronics 3
	Technical Graphics - Foundation 2	Technical Graphics 3
Sound background in mathematics	**Electronics 3**	Further study or employment in electronics, electrotechnology or electrical engineering
Computer Graphics and Design - Foundation 2	**Computer Graphics and Design 3**	May lead to further study or employment in a design-related area Housing and Design 3 & Computer Graphics and Design 3 may lead to Object Design (University College Program)
A 'B' (or 'C' in consultation with teachers) in Year 10 Australian Curriculum English	**Housing and Design 3**	
Some drawing experience	**Technical Graphics 3**	
Design and Production 2 Housing and Design 3 Computer Graphics and Design 3	**Object Design (University College Program)**	

level 1 level 2 level 3

You have:	TASC subjects	May lead to:
No previous experience	**Introduction to Construction** Statement of Attainment for selected units	Further study or employment in the industry area
	Introduction to MultiTrades Statement of Attainment for selected units from certificate programs in the trades area	
	Introduction to Plumbing Statement of Attainment for selected units from Construction, Plumbing and Service Training package	
	Introduction to Technology Trades Statement of attainment for selected units from Certificates I in Engineering, Furnishing and Automotive Vocational Preparation	
	Certificate I in Automotive Vocational Preparation	Certificate II in Automotive Vocational Preparation Certificate II in Automotive Repair Technology Certificate II in Automotive Servicing Technology
	Certificate I in Construction	Certificate II in Construction Certificate II in Construction Pathways Employment Further study
Sound level English and mathematics skills	**Certificate I in ElectroComms Skills**	Certificate II in Electrotechnology
Experience with metals would be an advantage	**Certificate I in Engineering**	Certificate II in Engineering Pathways
An interest in the industry area	**Certificate I in Furnishing**	Certificate II in Furniture Making Employment Further study
No previous experience Basic literacy, numeracy, ICT and comprehension skills	**Introduction to Boating Services** Statement of Attainment for selected units from Certificate II in Boating Services	Further study or employment in the industry area
	Introduction to in Certificate II in Electrotechnology (Career Start) Statement of Attainment for selected units	
	Introduction to Maritime Operations Statement of Attainment for selected units from a range of Certificate II and III programs.	
	Certificate II in Automotive Vocational Preparation	
	Certificate II in Construction	
	Certificate II in Construction Pathways	
	Certificate II in Electrotechnology (Career Start)	
	Certificate II in Engineering Pathways	
Design and Production in wood	**Certificate II in Furniture Making**	

level 1 level 2 level 3

TASC subjects

Building Industry Basics
Selected TASC courses* VTCON2C

YOU WILL LEARN ABOUT:
- The basic skills required for a career in the construction industry
- The requirements of work in a trade area.

YOU DO THIS BY STUDYING:
- A range of basic skills required for the construction industry
- Numeracy in the workplace
- Construction projects.

* TASC courses in Work Readiness, Project Implementation and Design and Production.

LEARNING ACTIVITIES MAY INCLUDE:
- On and off-the-job activities
- Applied learning tasks
- Focused literacy and numeracy tasks.

TO ENROL IN THIS PROGRAM YOU NEED:
- An interest in future study in the construction industry.

THIS PROGRAM:
- Prepares you for further study in a VET Trades course
- Contributes 30 credit points for the Tasmanian Certificate of Education.

Workshop Techniques Introduction 1
WTE110114

YOU WILL LEARN ABOUT:
- Working with wood, metal, textiles, plastics, mixed materials or automotive and vehicle body components
- Tools and equipment
- Techniques to make products in the chosen material
- Using hand and power tools and techniques
- Basic machines
- Safety in the work area
- Using a variety of materials and embellishment techniques.

YOU DO THIS BY STUDYING:
- Basic hand tool identification
- Basic assembly techniques
- Basic construction techniques.

LEARNING ACTIVITIES MAY INCLUDE:
- Compliance with safety requirements
- Completion of practical projects.

TO ENROL IN THIS SUBJECT YOU NEED:
- No previous experience.

THIS SUBJECT:
- Provides a pathway to *Design and Production 2, Certificate II in Engineering, Certificate II in Applied Fashion*
- Contributes 10 (level 1) credit points for the Tasmanian Certificate of Education.

Automotive and Mechanical Technologies 2
AMT215116

YOU WILL LEARN ABOUT:
- Selection and safe use of appropriate tools and equipment
- Techniques used in automotive workshops e.g. dismantling and reassembling of components and basic services and repairs.

YOU DO THIS BY STUDYING:
- 4-stroke and 2-stroke and multi-cylinder engines
- Transmission, ignition, fuel, cooling, electrical and engine management systems.

LEARNING ACTIVITIES MAY INCLUDE:
- Practical work on engines, cars or other mechanical systems
- Maintenance and repairs
- Worksheets and written reports
- Automotive or mechanical project.

TO ENROL IN THIS SUBJECT YOU NEED:
- No previous experience
- An interest in automotive and mechanical systems.

THIS SUBJECT:
- Provides a pathway to *Certificate I or II in Automotive*
- Contributes 15 credit points for the Tasmanian Certificate of Education.

Aviation Studies 2
TASAERO1

YOU WILL LEARN ABOUT:
- How an aeroplane flies
- Basic flight manoeuvres
- The aeroplane piston engine
- Aeroplane systems
- Flight instruments
- Navigation and meteorology
- Air law.

YOU DO THIS BY STUDYING:
- Aircraft components, stability, engines and fuel systems
- Weight and balance calculations
- Atmospheric density issues
- Basic navigation
- Meteorology
- Air law (rules of the air)
- Human factors (medical and physiological).

LEARNING ACTIVITIES INCLUDE:
- Lectures and visiting speakers
- Web and text-based research activities
- Video presentations
- Attendance at Civil Aviation Safety Authority training seminars
- Flight training with the Tasmanian Aero Club (optional).

TO ENROL IN THIS SUBJECT YOU NEED:
- A/B (or C in consultation with teachers) in Year 10 Australian Curriculum English and Mathematics.

THIS SUBJECT:
- Involves the Civil Aviation Safety Authority's Basic Aeronautical Knowledge syllabus and leads to a qualification valid for life
- Is recognised by TASC, which will issue a statement of recognition for successful students
- Contributes 12 credit points for the Tasmanian Certificate of Education.

Computer Graphics and Design Foundation 2
CGD215113

YOU WILL LEARN ABOUT:

- Creating 2D and 3D digital graphics and animation
- Using a design process to create digital content
- Using and developing computer graphic techniques and processes to solve problems.

YOU DO THIS BY STUDYING:

- A variety of software packages
- Design processes and principles
- Communication skills to convey design development
- The design and creation of digital solutions selecting from the following areas:
  - » Digital imaging (raster and vector)
  - » 3D modelling for games
  - » Film and television
  - » CAD/CAM and rapid prototyping
  - » 2D and 3D animation
  - » Interactive design (mobile, Internet and disc based media)
  - » Video
  - » Motion graphics and post-production editing
  - » Game design and production.

LEARNING ACTIVITIES MAY INCLUDE:

- Learning a range of software packages
- Digital projects demonstrating skills in at least four of the areas
- Digital project of your own choice following a design process.

TO ENROL IN THIS SUBJECT YOU NEED:

- Basic computer skills.

THIS SUBJECT:

- Provides a pathway to further study and/or a career in any design-related field including game design, multi-media, environmental design, landscape, fashion design, visual communication, architecture, surveying and engineering
- Contributes 15 credit points and meets the standard for everyday adult use of computers and the internet for the Tasmanian Certificate of Education.

Design and Production 2
DAP215116

YOU WILL LEARN ABOUT:

- Design and construction of products using one or a combination of materials including:
  - » Composite materials
  - » Glass
  - » Metals
  - » Plastics
  - » Textiles
  - » Wood.

YOU DO THIS BY STUDYING:

- Design thinking and project implementation
- Tools, equipment and processes to manipulate and construct items using different materials
- Workplace health and safety requirements
- Factors influencing design decisions
- A variety of finishing techniques.

LEARNING ACTIVITIES MAY INCLUDE:

- Research into possible design solutions to address a design brief
- Design and making of a major project, at least one minor project and a design folio
- Developing techniques and processes to make designed projects
- Application of safe work practices with tools and equipment.

TO ENROL IN THIS SUBJECT YOU NEED:

- No previous experience.

THIS SUBJECT:

- Is based mainly on practical work
- In 2017 this course will not contain specialisations so students can only count the TCE points from one *Design and Production* course in a year
- Provides a suitable pathway to a range of VET programs in areas such as applied fashion design and technology; art, craft and design; clothing and textiles; construction; engineering; furniture production; manufacturing; or soft furnishings

PROVIDES A PATHWAY FOR:

- University Object Design
- *Housing and Design 3*
- Contributes 15 credit points for the Tasmanian Certificate of Education.

Electronics Foundation 2
ELT215114

YOU WILL LEARN ABOUT:

- Functions and applications of electronic components
- Prototyping circuits using breadboards and computers
- The construction of practical electronic projects
- The importance of electronics in society
- Careers in electronics.

YOU DO THIS BY STUDYING:

- Basic circuits
- Transistors for switching, timing and control
- Audio amplifiers
- Digital circuits
- Electronic communication systems
- Power supplies.

LEARNING ACTIVITIES MAY INCLUDE:

- Practical work and assignments
- Individual projects.

TO ENROL IN THIS SUBJECT YOU NEED:

- No previous experience.

THIS SUBJECT:

- Is a useful background for further study and/or careers in electronics
- Provides a pathway to *Electronics 3*
- Contributes 15 credit points for the Tasmanian Certificate of Education.

Technical Graphics Foundation 2
TEG215115

YOU WILL LEARN ABOUT:

- Freehand, technical (instrument) and Computer Aided Drafting and Design (CADD) drawing to solve real-world design problems
- Communicating knowledge and ideas in a graphic form, which complies with industry standards
- Creating files for digital fabrication techniques (e.g. 3D printing, CNC routing, laser cutting)
- Designing and interpreting drawings.

YOU DO THIS BY STUDYING:

- Plane and solid geometry
- Freehand, technical drawing and CADD.

LEARNING ACTIVITIES MAY INCLUDE:

- A range of drawing exercises
- Set design briefs
- A design folio in an area of interest such as engineering, architecture, manufacturing, automotive, building and construction, landscape and environment, logos, jewellery, fashion or industrial and product design.

TO ENROL IN THIS SUBJECT YOU NEED:

- No previous experience.

THIS SUBJECT:

- Provides a pathway to *Technical Graphics 3*
- Complements studies in *Housing and Design 3, VET Construction* or *VET Engineering*
- Contributes 15 credit points for the Tasmanian Certificate of Education.

Computer Graphics and Design 3
CGD315113

YOU WILL LEARN ABOUT:

- Design process, principles and practice in specialised contexts
- Creating 2D and 3D digital graphics and animation
- Sketching and graphic communication including orthographic, isometric and perspective drawing
- Fundamentals of contemporary digital technologies in design and computer graphics
- Design in society and the ethical, cultural and sustainability impacts.

YOU DO THIS BY STUDYING:

- Processes and systems of 3D modelling to develop design solutions in products, engineering, architectural/visualisation, games, character or film/television
- A design process by planning, undertaking and evaluating a variety of design projects
- Techniques in either digital imaging or interactive design (mobile, internet and disc based media)
- Skills in either visualisation, animation, video and motion graphics and post-production editing or game design and production.

LEARNING ACTIVITIES MAY INCLUDE:

- The use of a variety of open source and industry standard software packages
- Undertaking design briefs, research assignments and a major project on a topic of your choice
- Researching and analysing of a specialised area related to the major project.

TO ENROL IN THIS SUBJECT YOU NEED:

- Good computer skills and/or
- An SA or above in *Computer Graphics and Design - Foundation* 2.

THIS SUBJECT:

- Provides a pathway to further study and/or a career in any design-related field including game design, multi-media, environmental design, landscape, fashion design, visual communication, architecture, surveying and engineering
- Contributes 15 credit points and meets the standard for everyday adult use of computers and the internet for the Tasmanian Certificate of Education.

Electronics 3
ELT315114

YOU WILL LEARN ABOUT:

- Fundamentals of electricity and electronics components
- Analogue electronics including operational amplifiers and filters
- Digital circuits, including logic, counters and displays
- Programming micro-controllers
- Power supplies
- Analysing, prototyping, designing and constructing circuits.

YOU DO THIS BY STUDYING:

- Operational amplifiers as DC and AC amplifiers
- Waves
- Filters
- Digital electronics - includes logic gates, Boolean algebra, number bases and timing diagrams
- Use of computer applications for drawing circuits and printed circuit boards
- Use of laboratory equipment for analysing and measuring circuits.

LEARNING ACTIVITIES MAY INCLUDE:

- Practical work and assignments
- Individual projects, including a major project
- Portfolio of work.

TO ENROL IN THIS SUBJECT YOU NEED:

- A sound background in mathematics.

THIS SUBJECT:

- Provides a useful background to further study in electronics, electro-technology computing and electrical engineering
- Is useful for careers in the defence forces
- Contributes 15 credit points for the Tasmanian Certificate of Education.

Housing and Design 3
HDS315113

YOU WILL LEARN ABOUT:

- Sustainability in housing design
- Design of living spaces
- Ergonomic and aesthetic factors in housing and interior design
- Practical and social aspects of housing.

YOU DO THIS BY STUDYING:

- Passive solar design
- Elements and principles of design
- Design development and communication
- Designing for individual needs
- Layout to meet functional needs of users.

LEARNING ACTIVITIES MAY INCLUDE:

- Design briefs and challenges
- Assignments
- Excursions
- Negotiated design folio (externally assessed).

TO ENROL IN THIS SUBJECT YOU NEED:

- B (or C in consultation with teachers) in Year 10 Australian Curriculum English.

THIS SUBJECT:

- Leads to further study and/or careers in environmental design and architecture, interior design, landscape design
- Contributes 15 credit points and meets the standard for everyday adult use of computers and the internet for the Tasmanian Certificate of Education.

Technical Graphics 3
TEG315115

YOU WILL LEARN ABOUT:

- Freehand, technical (instrument) and Computer Aided Drafting and Design (CADD) drawing to solve real world design problems
- Communicating knowledge and ideas in a graphic form which complies with industry standards
- Creating files for digital fabrication techniques (e.g. 3D printing, CNC routing, laser cutting)
- Designing and interpreting drawings in a range of areas such as engineering, architectural, industrial, and product design.

YOU DO THIS BY STUDYING:

- Plane and solid geometry
- Structural analysis
- Presentation techniques
- Industry applications and contexts
- Freehand, technical drawing and CADD.

LEARNING ACTIVITIES MAY INCLUDE:

- A range of drawing and problem-solving exercises
- Set design briefs
- Design folio to solve a design problem within a chosen industry context using the relevant drawing conventions and protocols.

TO ENROL IN THIS SUBJECT YOU NEED:

- Some drawing experience.

THIS SUBJECT:

- Provides a pathway to further study in design-related areas such as architecture, architectural drafting, engineering, surveying, industrial, product, and landscape design
- Provides skills in preparing files for digital fabrication
- Contributes 15 credit points for the Tasmanian Certificate of Education.

Object Design (University College Program)

FSF104 (Level 3)

YOU WILL LEARN ABOUT:

- Design processes and practice
- Production skills
- Designers and their approach to design problems
- University life.

YOU DO THIS BY STUDYING:

- Developing a design in response to a brief
- Documenting your design process in a journal
- Demonstrating and developing technical skills in working with the materials and finishes for your object
- Producing a finished designed object.

LEARNING ACTIVITIES MAY INCLUDE:

- Attending a symposium with designer talks and workshops at University of Tasmania in your region
- Working in your own college on the design and development of a designed object that addresses the design brief
- Technical instruction and mentoring from a university mentor to support the design and making of your design response
- Exhibiting work in a public exhibition
- Producing a journal reflecting your design development
- Writing a designer's statement about your work.

TO ENROL IN THIS SUBJECT YOU NEED:

- To have successfully completed
- *Design and Production 2*, *Housing and Design 3* or *Computer Graphics and Design 3* or be demonstrating outstanding progress in *Design and Production 2*.

THIS PROGRAM:

- Is offered as part of the University of Tasmania's University College Program and counts towards your TCE and ATAR. Successful completion of this subject may give you the opportunity to gain credit towards a University of Tasmania course
- Provides future pathways in art and design including degrees in fine arts, contemporary arts, 3D design, furniture, environmental design, architecture and education.

For more information, please visit the University's website and discuss your University College Program course options with a teacher or course counsellor at your school.

VET programs

All certificate programs contribute credit points for the Tasmanian Certificate of Education. The number of credit points is dependent on the units of competence. For details go to the TASC course planner at: www.tasc.tas.gov.au/3666

Introduction to Boating Services

Statement of Attainment for selected units from Certificate II in Boating Services

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YOU WILL LEARN ABOUT:

- Power boat operation and handling
- Marine rules and regulations
- Safety on the water and emergency procedures
- Trip planning and basic navigation.

YOU DO THIS BY STUDYING:

- Four units from the boating services, metals and engineering training package
- How to safely operate a mechanically powered recreational boat
- Trip preparation and planning activities
- How to respond to boating emergencies and incidents
- Occupational health and safety in the work environment.

LEARNING ACTIVITIES MAY INCLUDE:

- Classroom theory and completion of the national powerboating workbook
- On-water activities and exercises in the college or school boat.

TO ENROL IN THIS PROGRAM YOU NEED:

- No previous experience
- To participate in a suitability process.

THIS PROGRAM:

- Is an introduction to safe boat handling and operations
- Provides students with the opportunity to gain their power boat licence
- Provides a pathway to VET maritime study for students wishing to make a career in the marine industry.

Introduction to Construction

Statement of attainment for selected units from Certificate I in Construction

VTCON2C

YOU WILL LEARN ABOUT:

- The basic skills required for a career in the construction industry.

YOU DO THIS BY STUDYING:

- Selected units from the following areas:
  - » Occupational health and safety
  - » Workplace communication
  - » Measurements and calculations
  - » Plan interpretations
  - » The use of construction tools and equipment.

LEARNING ACTIVITIES MAY INCLUDE:

- On and off-the-job activities
- Practical construction tasks
- Written and oral tests
- Industry based work placement
- Online assessment.

TO ENROL IN THIS PROGRAM YOU NEED:

- An interest in construction
- To participate in a suitability process.

THIS PROGRAM:

- May provide a pathway to further study in this area, or an apprenticeship or employment.

Introduction to Certificate II in Electrotechnology (Career Start)

Statement of Attainment for selected units

***

YOU WILL LEARN ABOUT:

- The skills required to gain an apprenticeship in electrotechnology (electrical, refrigeration, electronics and telecommunications trades).

YOU DO THIS BY STUDYING:

- Occupational health and safety practices
- Electrical diagrams, schedules and manuals
- Sustainable work practices.

LEARNING ACTIVITIES MAY INCLUDE:

- Identifying and selecting electrical components
- Problem solving
- Fixing and securing electrical apparatus
- Dismantling electro-technology components.

TO ENROL IN THIS PROGRAM YOU NEED:

- High level literacy, maths and science skills
- To participate in a suitability process.

THIS PROGRAM:

- Provides a pathway to an apprenticeship/employment.

Introduction to Maritime Operations

Statement of Attainment for selected units from a range of Certificate II and III programs

***

YOU WILL LEARN ABOUT:

- Boat handling
- Safe work practices
- Maritime rules and regulations
- Emergency survival and fire fighting
- Navigation and radio operation.

YOU DO THIS BY STUDYING:

- Small vessel operation and maintenance techniques
- Water safety
- Basic navigation
- Seamanship
- Rules of the 'road'
- Maritime rules and regulations
- First aid.

LEARNING ACTIVITIES MAY INCLUDE:

- Classroom theory sessions
- Activities and assessment on the water in the college or school boat
- Three days of training and assessment with Seafood Training Tasmania Excursions.

TO ENROL IN THIS PROGRAM YOU NEED:

- An interest in working outdoors in a marine environment
- A desire to improve your skills and knowledge of boat handling.

THIS PROGRAM:

- Provides a pathway to further qualifications at the Australian Maritime College or the Australian Navy
- Leads to employment in the tourism, aquaculture, fishing and recreation industries.

Introduction to Multi Trades

Statement of Attainment for selected units from certificate programs in the trades area
VTMT033

Due to many units having a prerequisite unit for being deemed competent some units will be reported as having training only but not assessed as competent

YOU WILL LEARN ABOUT:

- Techniques in a range of areas, including automotive, or wood or metal
- Tools and equipment
- Safety in the workshop.

YOU DO THIS BY STUDYING:

- Trade tasters with selected competencies from a range of certificate programs.

LEARNING ACTIVITIES MAY INCLUDE:

- Industry related training for hands-on experience.

TO ENROL IN THIS PROGRAM YOU NEED:

- No previous experience
- To participate in a suitability process.

THIS PROGRAM:

- Provides a pathway to further study or employment in the industry areas.

Introduction to Plumbing

Statement of Attainment for selected units from Construction, Plumbing and Service Training package
***

YOU WILL LEARN ABOUT:

- The basic skills required for a career in the plumbing industry.

YOU DO THIS BY STUDYING:

- Selected competencies from the drainage training package (satisfactory completion will be recognised towards an apprenticeship in the plumbing trade).

LEARNING ACTIVITIES MAY INCLUDE:

- Industry related training for hands-on experience i.e. work placement.

TO ENROL IN THIS PROGRAM YOU NEED:

- An interest in plumbing
- Practical aptitude
- Basic literacy and numeracy
- To participate in a suitability process.

THIS PROGRAM:

- Provides a pathway to an apprenticeship and/or employment.

Introduction to Technology Trades

Statement of Attainment from
Certificate I in Automotive Vocational Preparation AUR10116
Certificate I in Engineering MEM10105
Certificate I in Furnishing MFS10113

YOU WILL LEARN ABOUT:

- The basic skills required for a career in the automotive, engineering and furnishing industries.

YOU DO THIS BY STUDYING:

- Selected units of competence from each of the three qualifications
- Workplace health and safety
- Workplace tools and equipment.

LEARNING ACTIVITIES MAY INCLUDE:

- Practical and written project work
- Written/oral test.

TO ENROL IN THIS PROGRAM YOU NEED:

- An interest in the associated trades
- Practical aptitude
- Basic literacy and numeracy.

THIS PROGRAM:

- Provides an introduction to VET in Schools programs in the Wood, Metal and Automotive trade areas.

Certificate I in Automotive

Vocational Preparation
AUR10116

YOU WILL LEARN ABOUT:

- General workplace and automotive skills.

YOU DO THIS BY STUDYING:

- Automotive workshop practices, including problem solving.

LEARNING ACTIVITIES MAY INCLUDE:

- Applying workshop safety
- Environmental considerations
- Basic automotive measuring equipment
- Automotive mechanical fundamentals
- Automotive electrical fundamentals
- Removing and tagging engine components
- Using appropriate tools and equipment.

TO ENROL IN THIS PROGRAM YOU NEED:

- An interest in automotive
- Basic maths, science, literacy and comprehension skills
- A desire to work in the automotive industry
- To participate in a suitability process.

THIS PROGRAM:

- Provides a pathway to *Certificate II in Automotive Vocational Preparation.*

Certificate I in Construction

CPC10111

YOU WILL LEARN ABOUT:

- The basic skills required for a career in the construction industry.

YOU DO THIS BY STUDYING:

- Occupational Health and Safety
- Workplace communication
- Measurements and calculations
- Plan interpretations
- The use of construction tools and equipment.

LEARNING ACTIVITIES MAY INCLUDE:

- On and off-the-job activities
- Practical construction tasks
- Written and oral tests
- Industry-based work placement
- Online assessment.

TO ENROL IN THIS PROGRAM YOU NEED:

- An interest in construction
- To participate in a suitability process

THIS PROGRAM:

- Provides a pathway to further study in this area, or an apprenticeship/ employment.

Certificate I in ElectroComms Skills
VEE10110

YOU WILL LEARN ABOUT:
- Identifying and using a range of components, accessories, materials, tools, equipment, technologies and customs for carrying out work in the electrotechnology communications industry.

YOU DO THIS BY STUDYING
- The following units of competency:
  - » Occupational health and safety practices
  - » Identify and select components/ accessories/materials
  - » Fix and secure equipment
  - » Environmentally sustainable work practices
  - » Maintain documentation
  - » Basic computer applications.

LEARNING ACTIVITIES MAY INCLUDE:
- A mix of classroom and workshop-based activities focussed on developing work readiness skills for careers within the wide scope of the electrotechnology industry including:
  - » Systems electrician
  - » Air conditioning refrigeration
  - » Auto electrical
  - » Communications
  - » Electronics
  - » Work placement.

TO ENROL IN THIS PROGRAM YOU NEED:
- Sound level English and mathematics skills
- To participate in a suitability process.

THIS PROGRAM:
- Provides a pathway to further study in Certificate II programs in Electrotechnology.

Certificate I in Engineering
MEM10105

YOU WILL LEARN ABOUT:
- The knowledge and skills in the area of metal fabrication, welding and fitting and machining.

YOU DO THIS BY STUDYING:
- The use of workshop hand tools and power equipment
- Welding methods, power tools and metal fabrication
- Workshop and industry safety.

LEARNING ACTIVITIES MAY INCLUDE:
- Workshop activities building a range of set projects
- Using simple drawings and techniques
- The opportunity to choose your own project in term 3.

TO ENROL IN THIS PROGRAM YOU NEED:
- Experience with metals would be an advantage but is not a pre-requisite
- To participate in a suitability process.

THIS PROGRAM:
- Provides a pathway to *Certificate II in Engineering* or *Certificate II in Engineering Pathways*

Certificate I in Furnishing
MSF10113

YOU WILL LEARN ABOUT:
- The skills required for building quality furniture.

YOU DO THIS BY STUDYING:
- Occupational health and safety in the furniture making industry
- Effective communication and team-work skills
- Calculation and measuring skills to construct basic timber furnishing products.

LEARNING ACTIVITIES MAY INCLUDE:
- Practical furniture making tasks
- Written assignments
- Costing activities.

TO ENROL IN THIS PROGRAM YOU NEED:
- Have an interest in working in the furniture making industry
- To participate in a suitability process.

THIS PROGRAM:
- Provides a pathway to further pathways and qualifications in furniture making or construction.

Certificate II in Automotive Vocational Preparation
AUR20716

YOU WILL LEARN ABOUT:
- General workplace and automotive skills.

YOU DO THIS BY STUDYING:
- Automotive workshop practices, including problem solving.

LEARNING ACTIVITIES MAY INCLUDE:
- Applying workshop safety
- Environmental considerations
- Basic automotive measuring equipment
- Automotive mechanical fundamentals
- Automotive electrical fundamentals
- Removing and tagging engine components
- Using appropriate tools and equipment.

TO ENROL IN THIS PROGRAM YOU NEED:
- An interest in automotive
- Basic maths, science, literacy and comprehension skills
- A desire to work in the automotive industry
- To participate in a suitability process.

THIS PROGRAM:
- Provides a pathway to *Certificate III in Automotive (Apprenticeship)*.

Certificate II in Construction
CPC20112

YOU WILL LEARN ABOUT:
- The basic skills required for a career in the construction and allied trades.

YOU DO THIS BY STUDYING:
- Selected competencies from the construction training package (satisfactory completion will be recognised towards an apprenticeship in the construction trade).

LEARNING ACTIVITIES MAY INCLUDE:
- Industry-related training for hands on experience.

TO ENROL IN THIS PROGRAM YOU NEED:
- An interest in construction
- Practical aptitude
- Basic literacy and numeracy
- To participate in a suitability process.

THIS PROGRAM:
- Provides a pathway to apprenticeship/ employment.

Certificate II in Construction Pathways
CPC20211

YOU WILL LEARN ABOUT:
- The basic skills required for the commencement of a career in construction and allied trades.

YOU DO THIS BY STUDYING:
- Workplace health and safety
- Carrying out measurements and calculations
- Workplace communication
- Reading and interpreting plans and specifications
- Skills required for concreting, plastering, carpentry and joinery.

LEARNING ACTIVITIES MAY INCLUDE:
- Practical construction projects
- Skill development in workshop environments
- Structured work placement participation.

TO ENROL IN THIS PROGRAM YOU NEED:
- An interest in the construction industry
- Practical aptitude
- Basic literacy and numeracy skills
- To participate in a suitability process.

THIS PROGRAM:
- Provides a pathway to an apprenticeship/employment.

Certificate II in Electrotechnology (Career Start)
UEE22011

YOU WILL LEARN ABOUT:
- The skills required to gain an apprenticeship in electrotechnology (electrical, refrigeration, electronics and telecommunications trades).

YOU DO THIS BY STUDYING:
- Occupational health and safety practices
- Electrical diagrams, schedules and manuals
- Sustainable work practices.

LEARNING ACTIVITIES MAY INCLUDE:
- Identifying and selecting electrical components
- Problem solving
- Fixing and securing electrical apparatus
- Dismantling electro-technology components.

TO ENROL IN THIS PROGRAM YOU NEED:
- High level English, mathematics and science skills
- To participate in a suitability process.

THIS PROGRAM:
- Provides a pathway to an apprenticeship/employment.

Certificate II in Engineering Pathways
MEM20413

YOU WILL LEARN ABOUT:
- The knowledge and skills in the area of metal fabrication, welding, and fitting and machining
- The skills needed by the metal manufacturing, maintenance and engineering industries.

YOU DO THIS BY STUDYING:
- The use of workshop hand tools and power equipment
- Welding methods, power tools and metal fabrication
- Workshop and industry safety
- Advanced building methods
- Accurate use of machines such as lathes and rollers.

LEARNING ACTIVITIES MAY INCLUDE:
- Practice at achieving accuracy as well as a high standard of workmanship
- Making projects for external clients.

TO ENROL IN THIS PROGRAM YOU NEED:
- Sound level mathematics, science and English (good reading and comprehension skills)
- To participate in a suitability process.

THIS PROGRAM:
- May provide a pathway to gaining an apprenticeship/employment.

Certificate II in Furniture Making
MSF20313

YOU WILL LEARN ABOUT:
- The principles of design
- Advanced woodworking techniques
- Safe use of hand and power tools, and fixed woodworking machines
- The furniture industry.

YOU DO THIS BY STUDYING:
- The principles of design
- Occupational health and safety
- Woodworking processes and techniques
- Correct use of hand tools, power tools, and fixed machinery.

LEARNING ACTIVITIES MAY INCLUDE:
- Designing, drawing and planning
- Practical woodworking skills
- Finishing work to a high standard
- Working with others
- Problem solving
- A work placement.

TO ENROL IN THIS PROGRAM YOU NEED:
- Communication, organisation, teamwork and problem solving skills
- To have either completed design and production in wood, or have significant woodwork experience
- To participate in a suitability process.

THIS PROGRAM:
- Is designed for students who are considering a career in building and associated industries
- Provides a pathway to apprenticeship/employment.