

PROGRAM DESCRIPTION: Industry Pathways in the VCE and VCAL

Summary description

Each Industry Pathway is designed to meet the requirements of the industry as a preparation for a broad range of vocations within that industry. Industry Pathway holders will have a breadth of knowledge and skills relevant to the industry, including literacy and numeracy skills, vocational skills in the industry, employability skills and experience of the industry. They will also have met all the requirements of the VCE or the Senior VCAL. This makes them well prepared for further vocational learning and for adaptability in future roles.

Industry Pathways are available in the following industries:

- Building and Construction
- Community Services and Health
- Manufacturing and Engineering
- Sport and Recreation.

Required components of the Industry Pathway

Study

The Industry Pathway is available within either the VCE or the VCAL. To meet the requirements of the Industry Pathway students must complete the Industry Pathway program and the VCE or Senior VCAL.

Students must complete studies from each of the following four groups:

- Vocational Education and Training
- Mathematics/Numeracy
- English/Literacy
- Core Studies.

As the structures of the VCE and VCAL are quite different, the minimum study requirements are specified separately for each senior secondary certificate. These structures are outlined in the tables in this document.

Workplace learning

An Industry Pathway has a minimum workplace learning requirement of 80 hours in total. The workplace learning supports the VET component of the Industry Pathway and assists with the development of employability skills. Workplace learning can be undertaken flexibly to suit the requirements of a school-based program and the requirements of employers.

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The workplace learning will be relevant to the Industry Pathway VET studies and can be comprised of structured workplace learning, employment, or school community work. Relevant experience in simulated work environments or workplace visitation may also contribute to the workplace learning requirement. Workplace learning to satisfy the overall Industry Pathway requirement may also contribute to other studies such as VCAL Work Related Skills or VCE Industry and Enterprise where it also meets the requirements of these studies.

Recommended aspects of the Industry Pathway

Contextualised learning

It is strongly recommended that the Industry Pathway also includes some contextualisation to the Industry theme in studies from groups other than VET. This will be compatible with normal timetabling and other delivery arrangements. Support materials for contextualised studies in Mathematics/Numeracy and English/Literacy are being developed to assist providers.

Pathways information and careers learning

Careers learning that provides an introduction to the industry, its many occupations pathways is strongly recommended for students considering an Industry Pathway. As students often select some senior secondary studies in Year 10, it is recommended that this careers learning begins in Year 9, prior to Year 10 unit selection, and that it continues throughout the Industry Pathway program. Advice on year-level-specific careers learning is available in the Victorian Careers Curriculum Framework:

www.education.vic.gov.au/school/teachers/teachingresources/careers/carframe/pages/framework.aspx?Redirect=1.

This is an online resource that also contains links to Victorian and Commonwealth industry information and to information about specific occupations.

Duration of the program

The Industry Pathway can be completed in accordance with the requirements of the student's senior secondary certificate. For example, the VET component or a VCE study can be commenced in Year 10.

Recognition

Students meeting the requirements of the Industry Pathway will have this recorded on their senior secondary certificate, indicating they have successfully completed the VCE or the Senior VCAL, and met the requirements of the Industry Pathway program.

Employability skills

Employability skills are already contained in all VET units of competency/modules, VCE study designs and VCAL units.

Industry Pathway in Building and Construction

Overview

Building and Construction has a major influence on every Australian. It provides the homes we live in, the places in which most of us work and play, our schools and hospitals, and the infrastructure essential for our day-to-day living.

In Victoria, the building and construction industry is one of the largest employing industry sectors. It is also one of the bigger employers of young people in the state. Some of the most common occupations in the industry are bricklayer, carpenter, painter and decorator, and plasterer. Occupations drawing on higher level vocational skills, such as building and construction technicians, are important in the industry. The industry also employs labourers in significant numbers. It is anticipated that more highly skilled building and construction occupations will increase in importance in the future.

Further information on employment and skills in the building and construction industry is available at: <www.education.vic.gov.au/training/employers/industry/Pages/marketinfo.aspx>.

Plumbing and electrical are also important trades in the building and construction industry but are not currently covered by this Industry Pathway.

Industry Pathway in Building and Construction – VCE unit options

Learning Sequence	Vocational Education and Training	Mathematics	English	Core Studies	Other
VCE Units 1 and 2	<p>One of the following:</p> <ul style="list-style-type: none"> VCE VET Building and Construction* School Based Apprenticeship or Traineeship from the Construction, Plumbing and Services training package. <p>Note: Students seeking a pathway into an apprenticeship in Bricklaying, Carpentry, Painting and Decorating, Wall and Ceiling Lining, Wall and Floor Tiling, Solid Plastering or Stonemasonry are strongly advised by the industry to complete <i>22216VIC Certificate II in Building and Construction</i>.</p>	Any VCE Mathematics.	VCE English, or Foundation English.	<p>One of the following:</p> <ul style="list-style-type: none"> additional studies from the VET category Accounting Business Management Industry and Enterprise Product Design and Technology Systems Engineering Visual Communication Design. 	Additional studies may be selected. (No Industry Pathway Requirement.)
VCE Units 3 and 4	<p>One of the following:</p> <ul style="list-style-type: none"> VCE VET Building and Construction, or School Based Apprenticeship or Traineeship from the Construction, Plumbing and Services training package. <p>See the note above.</p>	Any VCE Mathematics.	VCE English / EAL.	<p>One of the following:</p> <ul style="list-style-type: none"> additional studies from the VET category Accounting Business Management Industry and Enterprise Product Design and Technology Systems Engineering Visual Communication Design. 	Additional studies may be selected. (No Industry Pathway requirement.)

* VCE Students who wish to complete the entire certificate while at school are advised to commence in year 10 and continue over three years.

Industry Pathway in Building and Construction – VCAL credit options

Learning Sequence	Vocational Education and Training	Numeracy	Literacy	Core Studies	Other
Intermediate VCAL	<p>Two credits from one of:</p> <ul style="list-style-type: none"> VCE VET in Building and Construction School Based Apprenticeship or Traineeship from the Construction, Plumbing and Services training package. <p>Note: Students seeking a pathway into an apprenticeship in Bricklaying, Carpentry, Painting and Decorating, Wall and Ceiling Lining, Wall and Floor Tiling, Solid Plastering or Stonemasonry are strongly advised by the industry to complete <i>22216VIC Certificate II in Building and Construction</i>.</p>	<p>One credit in Numeracy Skills at Intermediate level or higher.</p> <p>(May include VCAL Numeracy Skills or any VCE Mathematics.)</p>	<p>Two credits in Literacy Skills at Intermediate level or higher.</p> <p>(May include VCAL Literacy Skills Units, Reading and Writing and Oral Communication or VCE English Units 1 and 2 or Foundation English).</p>	<p>Two credits containing an appropriate selection from the following options:</p> <ul style="list-style-type: none"> Work Related Skills including workplace learning or employment directly related to studies from the VET category. additional studies from the VET category. Personal Development Skills including activities directly related to the industry theme. the following VCE studies: <ul style="list-style-type: none"> Accounting Business Management Industry and Enterprise Product Design and Technology Systems Engineering Visual Communication Design. 	<p>Additional credits to ensure an eligible VCAL program.</p> <p>(No Industry Pathway Requirement.)</p>
Senior VCAL	<p>Two credits from one of:</p> <ul style="list-style-type: none"> VCE VET in Building and Construction School Based Apprenticeship or Traineeship from the Construction, Plumbing and Services training package. <p>See the note above.</p>	<p>Two credits in Numeracy Skills at Senior level.</p> <p>(May include VCAL Numeracy Skills units or any VCE Mathematics Units 3 and 4.)</p>	<p>Two credits in Literacy Skills at Senior level.</p> <p>(May include VCAL Literacy Skills units, Reading and Writing and Oral Communication or VCE English / EAL Units 3 and 4.)</p>	<p>Two credits containing an appropriate selection from the following options:</p> <ul style="list-style-type: none"> Work Related Skills including workplace learning or employment directly related to studies in the VET category additional studies from the VET category Personal Development Skills including activities directly related to the industry theme. the following VCE studies: <ul style="list-style-type: none"> Accounting Business Management Industry and Enterprise Product Design and Technology Systems Engineering Visual Communication Design. 	<p>Additional credits to ensure an eligible VCAL program.</p> <p>(No Industry Pathway Requirement.)</p>

Industry Pathway in Community Services and Health

Overview

The Community Services and Health industry makes a major contribution to the health, welfare and care of Australians from the very young to the aged. The industry is divided into seven sectors:

- hospitals
- pathology and diagnostic imaging services
- allied health services
- other healthcare services
- residential care services
- childcare services
- other social assistance.

It covers a large group of occupations with diverse roles, including nurse, early childhood educator, radiologist, aged care worker and social worker. Demand for the services of the industry continues to grow. It is one of the largest employing industries in Victoria.

This Industry Pathway can provide a broad preparation for a diverse range of occupations in the industry; however, it is important to consider mandatory qualification requirements as they apply to the different occupations in the industry when selecting study options from within the Industry Pathway and more broadly.

Further information on employment and skills in the industry is available at:
<www.education.vic.gov.au/training/employers/industry/Pages/health.aspx>.

Industry Pathway in Community Services and Health – VCE unit options

Learning Sequence	Vocational Education and Training	Mathematics	English	Core Studies	Other
VCE Units 1 and 2	One of the following: <ul style="list-style-type: none"> • VCE VET Community Services • VCE VET Health* • School Based Traineeship from the Health or Community Services training packages. 	Any VCE Mathematics.	VCE English, or Foundation English.	One of the following: <ul style="list-style-type: none"> • additional studies from the VET category • Biology • Health and Human Development • Industry and Enterprise • Physical Education. 	Additional studies may be selected. (No Industry Pathway requirement.)
VCE Units 3 and 4	One of the following: <ul style="list-style-type: none"> • VCE VET Community Services • VCE VET Health • School Based Traineeship from the Health or Community Services training packages. 	Any VCE Mathematics.	VCE English/EAL.	One of the following: <ul style="list-style-type: none"> • additional studies from the VET category • Biology • Health and Human Development • Industry and Enterprise • Physical Education. 	Additional studies may be selected. (No Industry Pathway requirement.)

* VCE Students wishing to complete a comprehensive Health program are advised to commence in Year 10 and continue over three years. Some VET options will provide credit only at Units 3 and 4 level. Students may still undertake the program over two years.

Industry Pathway in Community Services and Health – VCAL credit options

Learning Sequence	Vocational Education and Training	Numeracy	Literacy	Core Studies	Other
Intermediate VCAL	Two credits from one of: <ul style="list-style-type: none"> VCE VET Community Services VCE VET Health School Based Traineeship from the Health or Community Services training packages. 	One credit in Numeracy Skills at Intermediate Level or higher. (May include VCAL Numeracy Skills or any VCE Mathematics.)	Two credits in Literacy Skills at Intermediate Level or higher. (May include VCAL Literacy Skills Units, Reading and Writing and Oral Communication or VCE English Units 1 and 2 or Foundation English.)	Two credits containing an appropriate selection from the following options: <ul style="list-style-type: none"> Work Related Skills including workplace learning or employment directly related to studies from the VET category. additional studies from the VET category. Personal Development Skills including activities directly related to the industry theme. the following VCE studies: <ul style="list-style-type: none"> Biology Health and Human Development Industry and Enterprise Physical Education. 	Additional credits to ensure an eligible VCAL program. (No Industry Pathway requirement.)
Senior VCAL	Two credits from one of: <ul style="list-style-type: none"> VCE VET Community Services VCE VET Health School Based Traineeship from the Health or Community Services training packages. 	Two credits in Numeracy Skills at Senior Level. (May include VCAL Numeracy Skills units or any VCE Mathematics Units 3 and 4.)	Two credits in Literacy Skills at Senior Level. (May include VCAL Literacy Skills Units, Reading and Writing and Oral Communication or VCE English / EAL Units 3 and 4.)	Two credits containing an appropriate selection from the following options: <ul style="list-style-type: none"> Work Related Skills including workplace learning or employment directly related to studies from the VET category additional studies from the VET category Personal Development Skills including activities directly related to the industry theme the following VCE studies: <ul style="list-style-type: none"> Biology Health and Human Development Industry and Enterprise Physical Education. 	Additional credits to ensure an eligible VCAL program. (No Industry Pathway requirement.)

Industry Pathway in Manufacturing and Engineering

Overview

Manufacturing covers a myriad of inputs, processes and products. It embraces production of thousands of different types of goods, and covers a wide range of situations, from highly mechanised production lines using robotics, to simple mechanical activities such as soft drink bottling or concrete mixing, through to the production of fine jewellery.

In Victoria manufacturing remains an important industry. Engineering skills are critical to manufacturing at the trade, paraprofessional and professional level. Semi-skilled roles are also important, as are management, sales and administration. Manufacturing operates in a highly competitive global environment making innovation critical.

Further information on occupations and skills in this industry is available at:

<www.education.vic.gov.au/training/employers/industry/Pages/manufacturing.aspx>.

Industry Pathway in Manufacturing and Engineering – VCE unit options

Learning Sequence	Vocational Education and Training	Mathematics	English	Core Studies	Other
VCE Units 1 and 2	One of the following: <ul style="list-style-type: none"> VCE VET Engineering Studies School Based Apprenticeship or Traineeship from the Manufacturing or Metal and Engineering training packages. 	Any VCE Mathematics.	VCE English, or Foundation English.	One of the following: <ul style="list-style-type: none"> additional studies from the VET category Business Management Industry and Enterprise Physics Product Design and Technology Systems Engineering Visual Communication and Design. 	Additional studies may be selected. (No Industry Pathway requirement.)
VCE Units 3 and 4	One of the following: <ul style="list-style-type: none"> VCE VET Engineering Studies School Based Apprenticeship or Traineeship from the Manufacturing or Metals and Engineering training packages. 	Any VCE Mathematics.	VCE English / EAL.	One of the following: <ul style="list-style-type: none"> additional studies from the VET category Business Management Industry and Enterprise Physics Product Design and Technology Systems Engineering Visual Communication and Design. 	Additional studies may be selected. (No Industry Pathway requirement.)

Industry Pathway in Manufacturing and Engineering – VCAL credit options

Learning Sequence	Vocational Education and Training	Numeracy	Literacy	Core Studies	Other
Intermediate VCAL	<p>Two credits from one of:</p> <ul style="list-style-type: none"> VCE VET in Engineering Studies School Based Apprenticeship or Traineeship from the Manufacturing or Metal and Engineering training packages. 	<p>One credit in Numeracy Skills at Intermediate level or higher. (May include VCAL Numeracy Skills or any VCE Mathematics.)</p>	<p>Two credits in Literacy Skills at Intermediate level or higher. (May include VCAL Literacy Skills units, Reading and Writing and Oral Communication or VCE English Units 1 and 2, or Foundation English.)</p>	<p>Two credits containing an appropriate selection from the following options:</p> <ul style="list-style-type: none"> Work Related Skills including workplace learning or employment directly related to studies from the VET category additional studies from the VET category Personal Development Skills including activities directly related to the industry theme the following VCE studies: <ul style="list-style-type: none"> Business Management Industry and Enterprise Physics Product Design and Technology Systems Engineering Visual Communication and Design. 	<p>Additional credits to ensure an eligible VCAL program. (No Industry Pathway requirement.)</p>
Senior VCAL	<p>Two credits from one of:</p> <ul style="list-style-type: none"> VCE VET Engineering Studies School Based Apprenticeship or Traineeship from the Manufacturing and Engineering training package. 	<p>Two credits in Numeracy Skills at Senior level. (May include VCAL Numeracy Skills units or any VCE Mathematics Units 3 and 4.)</p>	<p>Two credits in Literacy Skills at Senior level. (May include VCAL Literacy Skills units, Reading and Writing and Oral Communication or VCE English / EAL Units 3 and 4.)</p>	<p>Two credits containing an appropriate selection from the following options:</p> <ul style="list-style-type: none"> Work Related Skills including workplace learning or employment directly related to studies from the VET category additional studies from the VET category Personal Development Skills including activities directly related to the industry theme the following VCE studies: <ul style="list-style-type: none"> Business Management Industry and Enterprise Physics Product Design and Technology Systems Engineering Visual Communication and Design. 	<p>Additional credits to ensure an eligible VCAL program. (No Industry Pathway requirement.)</p>

Industry Pathway in Sport and Recreation

Overview

Sport and Recreation falls within the broad industry category of Arts and Recreation, and is a smaller employing industry in Victoria. It includes occupations such as sports coach, sports person, fitness instructor, aquatics instructor and outdoor education supervisor.

Sport and Recreation also forms part of other fields, such as media, event management, community development, science, medicine and health. It is of particular relevance to young people as participants, volunteers and employees. Sport and Recreation may provide a pathway to full-time employment in the industry or an *entrée* to employment in related fields.

Further information on occupations and employment in this industry is available at www.education.vic.gov.au/training/employers/industry/Pages/arts.aspx.

Industry Pathway in Sport and Recreation – VCE unit options

Learning Sequence	Vocational Education and Training	Mathematics / Numeracy	English / Literacy	Core Studies	Other
VCE Units 1 and 2	One of the following: <ul style="list-style-type: none"> VCE VET Sport and Recreation School Based Traineeship from the Sport and Recreation training package. 	Any VCE Mathematics.	VCE English or Foundation English.	One of the following: <ul style="list-style-type: none"> additional studies from the VET category Biology Health and Human Development Industry and Enterprise Outdoor and Environmental Studies Physical Education. 	Additional studies may be selected. (No Industry Pathway requirement.)
VCE Units 3 and 4	One of the following: <ul style="list-style-type: none"> VCE VET Sport and Recreation School Based Traineeship from the Sport and Recreation training package. 	Any VCE Mathematics.	VCE English / EAL.	One of the following: <ul style="list-style-type: none"> additional studies from the VET category Biology Health and Human Development Industry and Enterprise Outdoor and Environmental Studies Physical Education. 	Additional studies may be selected. (No Industry Pathway requirement.)

Industry Pathway in Sport and Recreation Pathway – VCAL credit options

Learning Sequence	Vocational Education and Training	Numeracy	Literacy	Core Studies	Other
Intermediate VCAL	<p>Two credits from one of:</p> <ul style="list-style-type: none"> VCE VET Sport and Recreation School Based Traineeship from the Sport and Recreation training package. 	<p>One credit in Numeracy Skills at Intermediate level or higher. (May include VCAL Numeracy Skills or any VCE Mathematics.)</p>	<p>Two credits in Literacy Skills at Intermediate level or higher. (May include VCAL Literacy Skills units, Reading and Writing and Oral Communication or VCE English Units 1 and 2, or Foundation English.)</p>	<p>Two credits containing an appropriate selection from the following options:</p> <ul style="list-style-type: none"> Work Related Skills including workplace learning or employment directly related to studies from the VET category additional studies from the VET category Personal Development Skills including activities directly related to the industry theme the following VCE studies: <ul style="list-style-type: none"> Biology Health and Human Development Industry and Enterprise Outdoor and Environmental Studies Physical Education. 	<p>Additional credits to ensure an eligible VCAL program. (No Industry Pathway requirement.)</p>
Senior VCAL	<p>Two credits from one of:</p> <ul style="list-style-type: none"> VCE VET Sport and Recreation School Based Traineeship from the Sport and Recreation training package. 	<p>Two credits in Numeracy Skills at Senior level. (May include VCAL Numeracy Skills units or any VCE Mathematics Units 3 and 4.)</p>	<p>Two credits in Literacy Skills at Senior level. (May include VCAL Literacy Skills units, Reading and Writing and Oral Communication or VCE English / EAL Units 3 and 4.)</p>	<p>Two credits containing an appropriate selection from the following options:</p> <ul style="list-style-type: none"> Work Related Skills including workplace learning or employment directly related to studies from the VET category additional studies from the VET category Personal Development Skills including activities directly related to the industry theme the following VCE studies: <ul style="list-style-type: none"> Biology Health and Human Development Industry and Enterprise Outdoor and Environmental Studies Physical Education. 	<p>Additional credits to ensure an eligible VCAL program. (No Industry Pathway requirement.)</p>