

Metals & Engineering

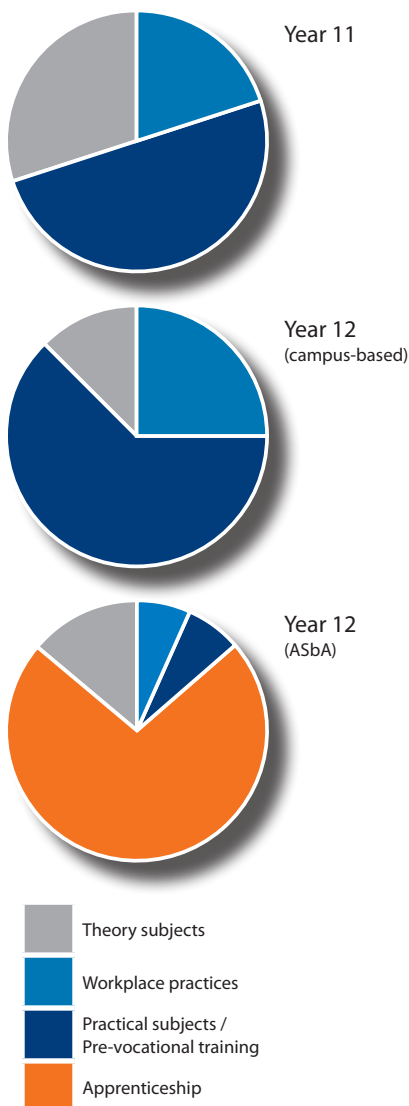
Course Outline

The St Patrick's Technical College Metals & Engineering course prepares students for a range of career pathways in the manufacturing, engineering and defence industries. Students become skilled at welding (oxy, mig, arc and tig), learn cutting, shaping and manufacturing metal structures and components, machining using lathes and milling machines, and design.

Demand for engineering tradespeople, in fabrication and mechanical trades, is high and opportunities for apprenticeships are very good. Opportunities also exist for air-conditioning and refrigeration mechanics within this field.

Students wishing to pursue a career in the Advanced Manufacturing or Defence Materiel sectors can combine this course with the College's *Applied Engineering* program.

Course structure



Students study a unique SACE course, developed at St Patrick's Technical College for the metals and engineering industry, and prevocational competencies from **Certificate II in Engineering (Fabrication)**.

All theory and practical subjects are tailored to be relevant and experiential where students achieve high levels of success.

Theory subjects

- Trade Mathematics
- Workplace Literacy
- Engineering Science

Practical subjects

- Technical Graphics
- Engineering Technology

Pre-vocational competencies

- **Certificate II in Engineering (Fabrication)**

A full list of the competencies delivered is available on the College website.

This specialist SACE + Australian Quality Training Framework Certificate (AQTF) course prepares students to move into a full apprenticeship program should they be successful in gaining an Australian School-based Apprenticeship.

Workplace Practices

Workplace Practices gives students the skills necessary to work effectively in teams and allows them to gain a detailed understanding of their chosen trade. Career planning, research, employability, self-evaluation and goal setting skills are extensively covered in this subject along with worker rights and responsibilities.

The course includes:

- Skills for Life
- Health & Fitness for Work

Work Experience

Work Experience is an integral part of the College's *Workplace Practices* program. It provides an opportunity for students to:

- experience their trade choice;
- develop skills for the workplace; and
- gain feedback from employers about their general employability skills such as attitude, work ethic, punctuality, problem solving abilities, communication and teamwork.

Campus-based students undertake a minimum of six weeks *Work Experience* per year.

Australian School-based Apprenticeship (ASbA)

An Australian School-based Apprenticeship (ASbA) is a mix of academic, vocational education and training, and paid employment. An ASbA provides students with employment skills, hands-on experience and is an integral part of their school program.

It is important to note that the ASbAs at St Patrick's Technical College are unique.

Due to the flexibility of our timetable, St Patrick's students can spend up to 34 weeks of Year 12 full-time at their employer enabling them to complete the first year of their apprenticeship while completing the requirements of the SACE.

The ASbA then continues as a full-time apprenticeship automatically upon graduation.

Career Pathways

Within the metals and engineering industry, you may be involved in activities such as cutting, pressing or casting metal, welding or grinding and working with heavy machinery, computer technology, cabling and mechanical equipment.

A comprehensive list of career opportunities can be found on the College website.

St Patrick's Technical College is part of an extensive network of industry associations, employers, training providers and group training organisations and is committed to working with families to present opportunities for students to start a trade career.

Enrolment information

Please contact us for further course information or for an enrolment package.



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St Patrick's Technical College combines a unique trade focused SACE with award winning trade and apprenticeship training for Year 11 & 12 students.

At St Patrick's Technical College, trade training is not just part of what we do -
IT'S ALL THAT WE DO!

St Patrick's offers trade pathways in Automotive, Building & Construction, Electrotechnology, Food & Hospitality, Hair & Beauty, Metals & Engineering and Plumbing. The College's **Advanced Technology Unit** offers trade and tertiary pathways in Applied Engineering.

St Patrick's Technical College is located at the gateway to the *Edinburgh North Smart Industries Precinct* with transport links from across Northern Adelaide, the Barossa Valley and Lower North.