

Engineering

PROGRESSION GUIDE – ASbA QUALIFICATION

Working Together

The Tasmanian Department of Education is committed to working with Tasmanian businesses to promote and support Australian School-based Apprenticeships (ASbA), which support the engagement, retention, transition and skills development of young people. We understand the contribution this pathway can make towards growing Tasmania's skills base and increasing the capacity for Tasmanian businesses to meet ever changing skills demands.

The objective for the Department's ASbA team is to assist businesses to develop and implement workforce development models that enhance the engagement, employment and training opportunities for young people while they are still completing school. We recognise that Australian School-based Apprenticeships and Traineeships provide a valuable contribution to workforce development planning and are a "Smart Way to Learn and Earn" for our students.

A number of Tasmanian school and college students are ready for the opportunity to get a head start in their career. ASbAs provide a meaningful employment and education pathway for these students. It is a way to support students who are enthusiastic and work-ready with an opportunity to combine work and school – completing their education at the same time as undertaking a nationally recognised qualification whilst in paid employment.

ASbAs are a key Workforce Development Strategy – planning today for Tasmania's future workforce. Let us work with you to take the first step in attracting, developing and retaining your highly skilled future workforce.



Combining learning with "on-the-job" training makes for a well-rounded skill set.



Australian School-based Apprenticeship – Key Phases

PHASE 1	→	PHASE 2	→	PHASE 3
<p>PRE-EMPLOYMENT</p> <p>ASbA STUDENT:</p> <ul style="list-style-type: none"> » Preparation of ASbA student to be work ready » Conversation and information with employee, student, parents/guardians about ASbA » ASbA student may engage in a work experience/placement at business <p>EMPLOYER:</p> <ul style="list-style-type: none"> » Apprenticeship Centre engaged » Registered Training Organisation selected » ASbA qualification selected » Sign up ASbA student 		<p>EMPLOYMENT</p> <p>DOE ASbA TEAM:</p> <ul style="list-style-type: none"> » Supports ASbA student » Supports the business/industry » Reviews and monitors ASbA contract and compliance <p>SCHOOLS AND COLLEGES:</p> <ul style="list-style-type: none"> » Work with student on personal learning/transition plan » Support ASbA student towards TCE completion » Align courses and subjects that complement ASbA training <p>EMPLOYER:</p> <ul style="list-style-type: none"> » Ensures ASbA employment requirements are undertaken 		<p>POST EMPLOYMENT AND TRAINING</p> <ul style="list-style-type: none"> » Progress ASbA into: <ul style="list-style-type: none"> – Part-time Apprenticeship – Full-time Apprenticeship – Full-time Employment » Continue with Industry Professional training » Continue with ongoing training <ul style="list-style-type: none"> – Certificate IV – Diploma » Pathway into University studies

Engineering

Certificate III in Engineering is an entry level qualification which provides students with skills and knowledge in machine processing, fabrication, and technical engineering-related work activities. This certificate is suited to students who enjoy solving problems, have an inquisitive nature and a passion for building and/or designing. Students should be able to work in team environments, communicate well, and appreciate the importance of risk management and work safety.

Progression

Progressing to Certificate IV in Engineering will allow students to build on previously learned skills. Students will gain specialised knowledge in specific areas of the engineering industry, including but not limited to: technical engineering, mechanical engineering, and marine construction and fabrication systems. Training in Certificate IV will ensure students graduate with a skill set that can provide pathways to employment in the engineering industry.

Example ASbA Qualification Advancement

CERTIFICATE III	→	CERTIFICATE IV	→	DIPLOMA/ ASSOCIATE DEGREE	→	BEYOND
Certificate III in Engineering (Mechanical Trades)		Certificate IV in Engineering		Diploma of Engineering		Bachelor of Engineering
Certificate III in Engineering (Fabrication Trades)		Certificate IV in Engineering Drafting		Advanced Diploma of Engineering		Bachelor of Engineering (Specialisation)
				Associate Degree of Engineering (Civil)		Bachelor of Marine Engineering
						Bachelor of Engineering Marine and Offshore
						Bachelor of Engineering (Naval Architecture)
						Bachelor of Engineering (Ocean Engineering)
						Graduate Diploma of Engineering
						Master of Engineering

* This is an example of Engineering learning pathways a student may choose to follow.

Example Timeline ASbA Model

EXAMPLE START	→	COMMENCING	→	PROGRESSION
January Year 11		ASbA – 24 months while at school and 36 months full-time for completion of Certificate III in Engineering (Mechanical Trades)		Progress to Certificate IV in Engineering

* ASbA students can be in Year 10, 11 or 12 – timeline for completion may vary depending on start date and the above timeline is an example only.



Example Complementary Subject Selections

POSSIBLE CHOICES

- » English Foundation 2
- » English General 3
- » Computer Application 2
- » Computer Science 3
- » Computer Graphics and Design Foundation 2
- » Computer Graphics and Design 3
- » Certificate II in Information Design, Media and Technology
- » General Mathematics Foundation 2
- » General Mathematics 3
- » Mathematics Method Foundation 3
- » Mathematics Methods 4
- » Technical Graphics Foundation 2
- » Design and Production 2
- » Certificate II in Electrotechnology (Career Start)
- » Certificate II in Engineering Pathways
- » Physical Sciences Foundation 2
- » Physical Sciences 3
- » Chemistry 4
- » Physics 4
- » Certificate II in Construction
- » Business Studies Foundation 2
- » Business Studies 3

* Please note, subject to change, not all subjects and courses are available in all regions, or at all Year 11 and 12 schools and colleges. Check with specific school/college for more details.



For more information

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