

STEM 4 GIRLS



GET FUTURE READY.

SCHOOL TO WORK INITIATIVE - STEM INDUSTRIES.

PREPARE YOURSELF AND DISCOVER
A WHOLE NEW FUTURE WORLD OF WORK.



ENGINEERING

- Start your career as an apprentice with an employer
- Learn on the job
- Achieve a Qualification – Certificate III
- Continue to Cert. IV and Diploma
- Continue to Higher Education.



INFORMATION TECHNOLOGY

- Start your career as a trainee with an employer
- Learn on the job
- Achieve a Qualification – Certificate III or IV
- Continue to Diploma
- Continue to Higher Education.



INDUSTRY 4.0

- Start your career as an Advanced Apprentice
- Learn on the job
- Achieve a Qualification – Diploma (VET)
- Continue to Higher Education.

In partnership with WynBay LLEN, Ai Group's, Centre for Education and Training is implementing a STEM 4 Girls Project.

The STEM 4 Girls Project, provides opportunities for WynBay LLEN and Ai Group to build on the strengths, experiences and networks of each organisation.

This project is focused on delivering career and employment opportunities to female students, supporting businesses to find employees and close the skills shortage gap, in the industry sectors of Engineering, IT and Industry 4.0.

WHY

The focus for the STEM 4 Girls Project is to target WynBay school clusters and girls studying at Years 11 and 12. The intention is to provide career information that will assist to shift myths relating to opportunities for girls to enter and have successful careers in STEM sectors. The ultimate outcome being the development sustainable futures for the communities and STEM related businesses of the Wyndham region.

STEM industries are moving forward and embracing new technologies. Businesses need the staff who have foundational skills and knowledge, as well as an understanding of the application of many forms of digital technologies. Many businesses are finding it difficult to find entry level workers, especially in the Engineering, IT and Industry 4.0 sectors. There is strong demand for entry level workers to take on apprenticeships, advanced apprenticeships and traineeships.

Many young people are practical learners and prefer to build and solve problems, in comparison there are those that prefer the theoretical approach to learning, and aim to go to university. Apprenticeships and traineeships are a model of earning while you learn. What you earn as an apprentice or trainee is for you to keep, with no higher education student debt worries hanging over you. The choice is there, start your career as an apprentices or trainees, or begin it through higher education at university.

The aim is to support women and girls into trades, through apprenticeships and traineeships, such as Engineering, IT and Industry 4.0.

WHAT

The STEM 4 Girls Project is focused on attracting and supporting fifty (50) women and girls into apprenticeships, advanced apprenticeships and traineeships, in the industries of Engineering, IT and Industry 4.0.

The table below is a snapshot of the career opportunities in each industry,

STEM INDUSTRY	QUALIFICATION	JOBS	APPROACH	PLACEMENTS
Engineering	Certificate III in Engineering (MEM30205)	Maintenance Fitter Welders / Welding (Boiler Maker) Sheet metal Process Manufacturing Fitter & Turner Fitter Machinist	Apprenticeship On and off the job training, usually, spends 80 percent of time on the job and 20 percent in training.	Thirty (30) apprentices
Information Technology	Certificate III in Information Technology (ICT30120) Certificate IV in Information Technology (ICT40120)	Help desk support roles CAD Cam Designers IT Tech support Web designer	Traineeship On and off the job training, usually, spends 80 percent of time on the job and 20 percent in training.	Ten (10) trainees
Industry 4.0	Diploma of Applied Technologies (22460VIC)	Controls Systems Engineer. Automation Engineer Validation Engineer Equipment Systems Engineer Data Scientist Robotics Engineer IT Solution Architect UI and UX Designer	Advanced Apprenticeship On and off the job training, usually, spends 80 percent of time on the job and 20 percent in training.	Ten (10)

HOW

STAGE ONE:

Getting to Know about STEM 4 Girls – Apprenticeship, Traineeships and Advanced Apprenticeships – Connected and Ready to Create my Career (Run concurrently) 2 sessions.

Hosted by:

- | | |
|------------|-----------------------------|
| • School 1 | 1 st week August |
| • School 2 | 2 nd week August |
| • School 3 | 3 rd week August |
| • School 4 | 4 th week August |

This is an Information Session which focuses on presenting the career opportunities of the STEM industries of Engineering, IT and Industry 4.0. Information will be shared relating to how apprenticeships and traineeships work, what employers expect of a new employee and where an apprenticeship or traineeship can take you. Employers and current apprentices or trainees will be available for informal question-and-answer sessions. This stage also assists participants to get ready to create their career in a STEM related trade. Assistance will be provided to prepare CVs or Resumes and application letters. There will be opportunities for developing participants skills in listening, problem solving and practice responding to questions. The experiences of this stage are an important step as participants begin their career journey as an apprentice or trainee.

Mock Job interviews for STEM.

Hosted by:

- Wyndham Tech School Term 4, 2nd week October

STAGE TWO:

Structured Workplace Learning - STEM Industries

Term 4, 1st week November

WynBay LLEN will arrange Structured Workplace Learning (SWL) for participants who wish to continue the journey of their selected career path in a STEM related industry. SWL provides participants with the opportunity to integrate practical on-the-job experience and learnings in industry with nationally recognised Vocational Education and Training (VET) undertaken as part of either the Victorian Certificate of Education (VCE) or the Victorian Certificate of Applied Learning (VCAL), VCE Industry and Enterprise or VCAL units. It provides the context for:

- enhanced skill development
- practical application of industry knowledge
- assessment of units of competency
- achievement of some learning outcomes for VCE studies or VCAL units,
- enhanced employment opportunities.

This stage provides the potential apprentice or trainee an opportunity to really experience the workplace, and the employer a chance to consider the chance to employ the SWL participant as an employee. It provides an opportunity for women participants to “taste” the three STEM industries of Engineering, IT and Industry 4.0.

During the program, each participant will build a small item which gives them a chance for hands on experiences. The duration of the Try a Tech Trade Program is 5 half days. Participants will find out if a STEM related trade is for them or not!

STAGE THREE:

Engagement – Training Contract between Student and Employer

Taking on an apprentice or trainee in the business is a big commitment. Stage three focuses on making sure that the legal requirements, as well as assisting you with paperwork, we will support you as the apprentice or trainee settles into the workplace.

How long the apprenticeship or traineeship takes will depend on the trade selected. It is usually 3 to 4 years for most apprenticeships and 1 to 2 years for a traineeship. A Training Agreement will need to be signed between the employer and apprentice. The Training Agreement states that the apprentice agrees to complete a TAFE course for about one day a week, and as the employer you will release the apprentice to do the training.

Don't worry, WynBay LLEN coordinator and the STEM 4 Girls Project team members will assist you through each stage.

TAKE THE NEXT STEP

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