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TRADE Schools for the Future

Western Adelaide

www.wats.sa.edu.au

April 2014

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The Western Adelaide Trade School for the Future operates under the governance of the Western Adelaide Secondary Schools Network (WASSN). WASSN is an alliance of DECD schools with secondary enrolments in Western Adelaide working collaboratively to deliver and promote comprehensive secondary education in Western Adelaide. These schools are:

- Adelaide Secondary School of English
- Bowden Brompton Community School
- Findon High School
- Henley High School
- Le Fevre High School
- Ocean View College B-12
- School of Languages
- Seaton High School
- Thebarton Senior College
- Underdale High School
- Warriappendi School
- William Light R-12 School
- Woodville High School

This term's Trade School newsletter showcases activities that have occurred in our schools this term, including:

- School-based apprentices - where are they now?
- 600 students commencing Regional VET Programs in 48 classes

- Regional White Card training
- Industry Skills Program activities
- Advanced Technology Project and WASSN STEM (Science, Technology Engineering and Mathematics) activities
- Maritime High School Program activities



Western Adelaide
 Regional VET Programs 2014
 Vocational Education and Training (VET) Courses
 www.wats.sa.edu.au



Henley High School Training Centre Career Expo



Wednesday 4th June 2014
Henley High School - Training Centre
5.00-7.00 pm
Free sausage sizzle

Students and parents will have direct opportunities to discuss possible career pathways and opportunities with post-secondary institutions and industry experts.



Government of South Australia
 Department for Education and
 Child Development

Better skills Better future

School-Based Apprenticeships



What are employers of Apprentices and Trainees looking for?

Employers 'invest' in apprentices and trainees through a contract of training. They are hopeful of

at least six years of service from the recruitment process, with the first four years bound by the contract of training.

Employers **will seek** evidence of an applicant's commitment to the trade or vocation. Applicants will be required to **contribute** as part of an efficient team. For this, apprentices and trainees will need good communication skills, problem solving ability, dexterity skills, responsible work and safety attitude and the ability to **work under pressure** – be motivated.

Within the SACE, Certificate III competencies of apprenticeships are distinguished as SACE Stage 2 Credits.

Minimal vocations use a low level of math: nearly all of them require very good mathematical skills. Industry units of competence will use maths applications to calculate and justify mechanical or scientific procedures to reach a practical outcome (including fault finding). Some of the common mathematical concepts required are arithmetic, fractions, decimals, percentages, ratios, scientific notions, area, volume, Pythagoras, shapes, angles, trigonometry, graphs, mean mode median, standard median, compound interest, linear measurement and mapping and directions.

Antony Tedesco commenced his bricklaying apprenticeship in Year 10 and is now in Year 12 earning 150 SACE credits. He will finish his training contract full time after he completes his SACE this year (see photo of Antony below).



School-based apprenticeships are another option to achieve SACE

The competencies of the apprenticeship or traineeship can contribute up to 150 SACE Credits at Stage 2. They can be recognised *in place* of other subjects within a student's individual learning plan at school. With every 35 hours of VET competencies completed, students will earn five SACE Credits. The competencies do not replace the compulsory subjects required for SACE.

A school-based apprenticeship or traineeship is a way for a student to incorporate their personal skills and talent to achieve their SACE. It is a combination of school, paid work and studies of "vocation specific" skills and knowledge.

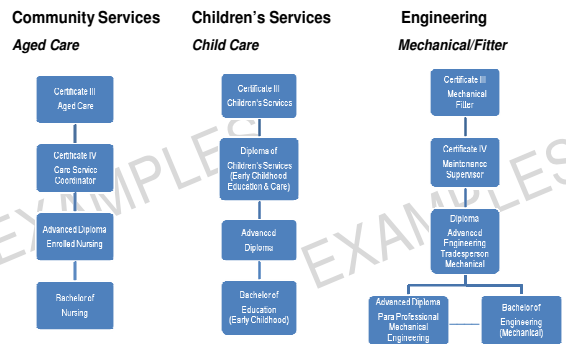
School-based Apprenticeship/Traineeship qualifications can help students to continue on to University

Apprenticeships and Traineeships are a pathway where **the qualification** enables the student to continue study through university.

For students who may not cope with entry via an ATAR score, or for other reasons, this is another option!

The Certificate III Traineeship qualification can also contribute towards an ATAR score, for example three x 20 credit SACE Stage 2 subjects + Recognised Studies (Certificate III completed).

Pathways like ...



Where Are They Now?

The Trade Schools for the Future program is now in its seventh year and continuing to experience growth in the uptake of School-based Apprenticeships. Based on the maturity of the program, we would like to showcase students that have previously commenced School-based Apprenticeships and provide an update on where they are now in their chosen vocation (see next page).

School-Based Apprenticeships (continued)

Name: Kyle Adcock (below)
School: Henley High School
Commenced: January 2011
Qualification: Certificate III Carpentry
Employer: Goode Quality Constructions
Progress: Commences 4th year of apprenticeship in August 2014



Name: Jake Frederickson (below)
School: Ocean View College
Commenced: October 2010
Qualification: Certificate III Marine Mechanic
Employer: Adelaide Shores Marine
Progress: Commences 4th year of apprenticeship in October 2014



Name: Pauletta Barliea (below)
School: William Light R-12 School
Commenced: 2012
Qualifications: Certificate III Aged Care, Certificate III in Allied Health Assistance and Certificate III in Health Services Assistance
Progress: completed all three qualifications, now continuing her studies and employment in nursing.



To find out what School-based Apprenticeship or Traineeship **vacancies** are available in our region, students can speak with their VET Coordinator, visit www.wats.sa.edu.au (under 'School-Based Apprenticeships) or contact:

Chris Houltyb
 Apprenticeship Broker
 0488 584 029
chris.houltyb@sa.gov.au

Vicki Bryant
 Apprenticeship Broker
 0458 564 603
vicki.bryant@sa.gov.au

**Chris Houltyb and Vicki Bryant
 Apprenticeship Brokers**

Construction Industry White Card Training

We have a new Registered Training Organisation delivering White Card for us this year through a Purchase Contract: Adelaide Training and Employment Centre (ATEC), based at Ottoway.

This term our regional White Card course was held on 17 March, with 16 students from seven schools participating and completing this qualification.

The term 2 course will be held on **Monday 2 June** (week 6). The flyer and registration form for this course is available for download from our website (www.wats.sa.edu.au).



Regional VET Programs

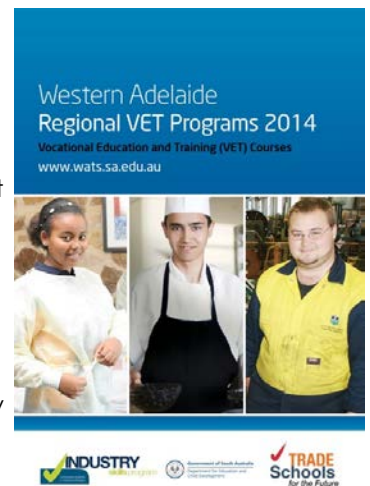


Our Regional VET (Vocational Education and Training) Programs for 2014 commenced in week 2 of this term. **600 students** have commenced Regional VET Programs in **48 classes**, with **37 teachers/trainers** delivering **29 nationally-recognised VET qualifications** at Certificate I, II and III level.

VET certificates being delivered across our region this year include:

- Certificate I in Automotive Vocational Preparation
- Certificate I in Construction
- Certificate I in ElectroComms Skills
- Certificate I in Engineering
- Certificate I in Furnishing
- Certificate I in Resources and Infrastructure Operations
- Certificate II in Automotive Servicing Technology
- Certificate II in Business
- Certificate II in Conservation and Land Management
- Certificate II in Community Services
- Certificate II in Creative Industries (Media)
- Certificate II in Electronics
- Certificate II in Engineering
- Certificate II in Family Wellbeing
- Certificate II in Hairdressing
- Certificate II in Horticulture
- Certificate II in Hospitality
- Certificate II in Information, Digital Media and Technology
- Certificate II in Kitchen Operations
- Certificate II in Metal Cladding and Roofing

- Certificate II in Sport and Recreation
- Certificate II in Sport Career Oriented Participation
- Certificate II in Transport and Distribution (Maritime Operations)
- Certificate III in Allied Health Assistance
- Certificate III in Carpentry
- Certificate III in Disability
- Certificate III in Fitness
- Certificate III in Health Services Assistance
- Certificate III in Information, Digital Media and Technology
- Certificate III in Technical Production



Our Regional VET Programs are a great example of collaboration across secondary schools in Western Adelaide, and couldn't happen without the ongoing support and commitment from school leaders, VET Coordinators and VET teachers/trainers. Thank you to everyone involved!

Below are some photos displaying activities from some of our Regional VET Programs this term. Thank you to the Host Schools that have provided photos.

Toni Andrew
Manager, Western Adelaide Secondary Schools Network



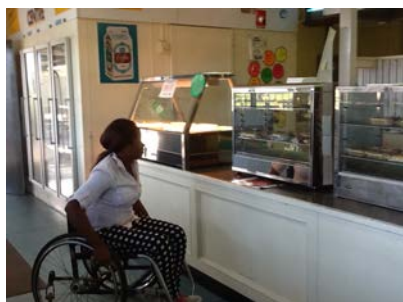
Above: Georgia Delaney (Certificate III in Disability at Findon High School) performs CPR on a child-sized mannequin, demonstrating her ability for the Apply First Aid competency.



Left: Magazine cover produced by Certificate II in Creative Industries (Media) student Zoe Miller at Henley High School.



Right: Beach MEDIA enterprise as part of Certificate II in Creative Industries (Media) at Henley High School.



Above: Jessica buying lunch at the canteen, whilst in a wheelchair for a day as part of Certificate II in Community Services (Child, Aged and Disability Care) at Findon High School.



Above: Barista training as part of Certificate II in Hospitality at Henley High School.

Right: Certificate I in Construction (Doorways 2 Construction) students building a wall frame at Henley High School.



Industry Skills Program



Training Opportunities for Young People

Late last month I was fortunate enough to be the guest of the Royal Australian Navy with four other representatives from South Australia. We flew to Perth and joined 50 other Career Practitioners and VET Leaders from across Australia to learn about the career opportunities in the Navy, particularly in the engineering, electrical and trade areas.

For two days, we learnt about the excellent training opportunities and career pathways for young people through the Navy. We explored frigates, learnt about submarines, life in the Navy and the host of vocations available to school leavers who are competent in their mathematics and literacy skills.

We agreed that there's no better way to start a trade career than in the Australian Defence Force, with the huge range of different trade careers available.

Transitioning from school, students will start off on a great wage while they train to become an expert in their chosen field, receiving nationally recognised qualifications. They will have great travel opportunities and be working with some of the most technically-advanced equipment in the world. Some of the benefits include competitive salary packages, guaranteed job security, free healthcare and subsidised accommodation. Plus, with physical activity included in a typical days work, there is plenty of time for recreational activities.

To find out more, email trades@dfc.com.au, call 13 19 01 or visit www.defencejobs.gov.au.

Some Trade Careers in the Navy

Technical Trades	Qualification
Aviation Technician - Aircraft	Certificate IV in Aeroskills (Aircraft Maintenance Engineering - Mechanical)
Aviation Technician - Avionics	Certificate IV in Aeroskills (Aircraft Maintenance Engineering - Avionics)
Electronics Technician Surface and Submarine	Certificate III in Electronics and Communication
Marine Technician Surface and Submariner	Certificate III in Transport and Distribution

The Navy and the Australian Defence Force offers a host of training pathways to eligible young people that support training and university courses to become highly skilled cadets. These pathways are not only in the trade areas but incorporate health, hospitality, medical and others.

In Western Adelaide, young people have the opportunity to develop Vocational Education and Training (VET) skills through Trade Training Centres and Trade Skills Centres, which offer high level training to support young people entering an apprenticeship, furthering their training or university pathway, or taking up training opportunities in the Australian Defence Force. Students can access training in these Centres through our Regional VET Programs (see www.wats.sa.edu.au).

Trade Training Centres/Trades Skills Centres in Western Adelaide DECD schools are:

School	Industry/ies
Henley High School	Electrotechnology, furniture making, construction and engineering (complete)
Le Fevre High School	Engineering (complete)
Ocean View College B-12	Civil construction (complete)
Seaton High School	Electrotechnology and plumbing (complete)
Thebarton Senior College	Construction (complete)
Underdale High School	Automotive (complete)
Warriappendi School	Hospitality (approved)
William Light R-12 School	Health (approved)
Woodville High School	Construction (complete)

Throughout our visit with the Navy, officers identified the training opportunities for young people and the recruitment opportunities. Some useful information can be found at the following web addresses:

- Engineering: http://content.defencejobs.gov.au/pdf/triservice/MDFT3518_Tri_Service_Engineering_Flyer.pdf
- Submariners: <http://www.defencejobs.gov.au/navy/submariners/>
- Defence University Sponsorship (for Engineering students at University): <http://www.defencejobs.gov.au/education/universitysponsorship/>



Cherry Robinson
Industry Skills Manager

ADVANCED TECHNOLOGY PROJECT



Our first WASSN STEM (Science, Technology, Engineering and Mathematics)/ATP meeting for 2014 at Henley High was held on 6 February. Representatives from each school presented the STEM activities they will be running for 2014. Some examples include:

- Le Fevre High and Ocean View College's Marine Biology collaboration, looking at the wave generator and its impact on marine ecology
- Seaton High's Year 8 C2C (Concept 2 Creation) Cruz challenge
- Underdale High's Year 8 and 9 Robotics
- Findon High's "You are what you eat"
- Woodville High's use of the Arduino units in Technology
- William Light School's VET Allied Health and
- Henley High's Year 10 Girls in Technology program.

Student activities and teacher professional development for 2014 were also discussed. The next meeting will be held on Thursday 8 May, 3.30 -5.00 pm (week 2, term 2) at Henley High.

Year 9/10 UniSA Enrichment program

This year, UniSA is funding the Connect STEM program for high achieving Year 9/10 students from WASSN schools. This program will accommodate a maximum of 40 students. Each school has nominated four students in the program. Some workshops will be specifically designed for the program while other workshop descriptions can be viewed at www.unisa.edu.au/Study-at-UniSA/UniSA-College/UniSA-Connect. The student workshops will be managed by UniSA Connect staff. Two University mentors will be present in each student workshop to provide technical expertise. The students will have the opportunity to meet current and high achieving STEM University students. The schedule is as follows:

Term	Week	Day	Date	Activities
2	4	Tuesday	20/05/14	3D Printers; Planetarium; Earth Winds
2	9	Monday	23/06/14	Penguin Pong; World Leading Researcher
3	4	Tuesday	12/08/14	Maths Experience
3	8	Monday	08/09/14	Materials Science, Engineers Without Borders
4	3	Tuesday	28/10/14	Microfluidics; African Solar Taxi

Year 9/10 UniSA Enrichment Program Session 1

35 Year 9/10's from Henley High, Ocean View College, Findon High, Underdale High, William Light R-12, Woodville High, Seaton High, Thebarton Senior College and Le Fevre High

participated in the first session at UniSA on Wednesday 19 March.

The sessions for the day were an introduction to the STEM program, Sensor Technology and a tour of the University after lunch. All students were thoroughly engaged for over two hours in conducting an investigation of specific examples of enhancement technology: infra-red and ultrasonic sensors and the relationship to material type, distance, shape and the resultant voltage of the reflected pulse. We would like to thank Deb Turley and Celina Bolding from UniSA for organising and facilitating this day.

The next activity for these students in this program will be 3D printers and an exploration of earth winds in the Planetarium on Tuesday 20 May (see schedule).

Year 8 Specialist STEM program

The purpose of this program is to enable Year 8 students with a passion and aptitude for STEM to participate in activities which further enhance and extend their understanding of STEM concepts, skills, applications, subjects and career pathways. This program will provide the opportunity for 15 students from Henley High and two students from each of the WASSN schools to participate in a STEM enrichment program 1-2 times per term for 2014.

The first session was a visit to The University of Adelaide on Wednesday 14 March, with students from Henley High, William Light, Woodville High and Ocean View College participating in sessions on the conservation of species diversity – designing their own parasite, flow visualisation in the Engineering lab and using Scratch in the Computer Sciences Lab (please see photo below). We would like to thank Michelle Coe and Lousie O'Reilly from The University of Adelaide for organising and facilitating this day.



Sandra Moran
Regional ATP/STEM Manager

Maritime High School Program



The 2014 year has commenced with a new group of students from Western Adelaide working 8.00 am to 4.00 pm on Wednesdays as

part of the VET Maritime Engineering course, under the guidance of Mr Chris Chrisakis in the Le Fevre High School Trade Training Centre (see photo below). This course can lead students into a range of metal-based careers.



Despite a predicted long lead time for the future submarines project at ASC Osborne, which will have major employment opportunities in the future, our students with metals trade qualifications will continue to be highly sought after and have great opportunities in the future.

New for 2014 is a Maritime Industry Pathway course for students that will be delivered by the Australian Maritime and Fisheries Academy (AMFA) in Port Adelaide. 26 successful applicants will learn

about a range of career pathways in maritime as they work towards a Certificate II in Transport and Distribution (Maritime Operations). They will spend the last week of each term at AMFA to learn about marine safety, engineering, boat handling and nautical theory, before participating in a five day voyage on the Tall Ship 'One and All'. The Maritime High School Program has supported a similar group to commence this course in Port Lincoln.

The Maritime High School Program has recognised a need for students to acquire knowledge in the somewhat 'hidden' Transport and Distribution industries. This includes land and maritime-based operations. Port Adelaide and surrounds have many organisations with employment needs in these areas. Courses are being developed that will support students' knowledge of this area, and will be led by Ocean View College B-12.

I recently visited the Garden Island Navy Base in Perth. This is the base for the Collins Submarines, built and serviced in SA. I was impressed to see the variety of careers that the Navy can offer school leavers. This includes Graduate and Undergraduate Trade and General Entry options. My particular focus was on the technical and trade training which is delivered to a high level, with Navy personnel regularly upgrading and extending their qualifications. Please see the Industry Skills Program report for

more information on this visit.

Below is an excerpt from a speech to the Commonwealth Parliament recently by Port Adelaide MP Mark Butler:

"Today, at Osborne, near Port Adelaide, there is the home of the Australian Submarine Corporation, or the ASC as it is now known, the main shipbuilder for the three Hobart class Aegis air warfare destroyers—the largest Defence project ever undertaken in Australia. More than 1,500 AWD workers are based in Adelaide and there are a number of other spin-offs as well. Just one example is Le Fevre High School, in the Port Adelaide electorate. Le Fevre High is developing itself as a maritime high school, utilising the new trades training centre that was built under the last Labor government. This means, for example, that students at Le Fevre High today can learn skills in shipbuilding or engineering and move straight from school into apprenticeships at ASC, providing them potentially with great jobs for their entire working lives until retirement, just on the basis of the submarine building and maintenance program that Labor committed to. Similar stories exist in other schools in the western suburbs, the member for Hindmarsh's electorate, and in my electorate in the north-western suburbs and the northern suburbs."

Rod Hunter
Maritime Coordinator



Nominations are now open for this year's SA Training Awards. Nominations close on **23 May 2014**.

The peak annual State awards for vocational education and training

(VET) celebrate quality, excellence and innovation in training.

Individual award categories are:

- Apprentice of the Year
- Trainee of the Year
- Vocational Student of the Year
- Aboriginal and Torres Strait Islander Student of the Year
- School-based Apprentice of the year
- VET Teacher/Trainer of the Year

Workshops are being held to provide applicants with practical advice on how to prepare an application and to maximise their chances of winning an award.

For more information, please see the Awards website:

www.satraininawards.sa.gov.au