The Maritime High School based at Le Fevre High School is an initiative of the South Australian government and combines secondary school studies that have a specific focus on high level maths and science and technical Vocational Education and Training (VET) within a maritime context.

The Maritime High School now combines secondary school studies that have a specific focus on maritime studies for the Western Adelaide regional schools. In addition to the maritime vocational courses, a number of maritime scientific studies courses have been developed providing opportunities for students to study ship design, electronics, radar, GPS and navigation technologies. This provides a training pathway towards achieving a nationally recognised vocational accreditation and the South Australian Certificate of Education (SACE) at the same time.

Students invited to Engineers Australia Convention

Le Fevre students meet defence personnel at the Engineers Australia Conv.

As part of the naval engineering course at Le Fevre High, Year 11 submarine technologies students were invited by the REA (Re Engineering Australia) to the Engineers Australia Convention in Melbourne during November last year. Students had the opportunity to explain their work to engineers and defence personnel, who were very interested and asked many questions.

The naval engineering course centers on practical exercises of design and construction of prototypes to test theories using the latest CNC Laser cutting technology. Year 11 students design and build remote-controlled sailboats in semester 1 and submarine exploration vessels in semester 2. Year 12 students design and build powered remote-controlled scaled ships. This program is suitable for students interested in applied science and engineering and as a result of the course, some Year 12 students have applied to the Engineering School of the Australian Maritime College.

The Australian Maritime College has a partnership with Flinders University, where students have the opportunity to complete their first two years of study here in Adelaide, before heading off to Launceston in Tasmania to finish their Maritime engineering degree. In the courses delivered at Le Fevre High, applied physics is used to explore and explain current scientific issues, in particular in a maritime environment. Students become aware of the significance of mathematics and science to address a range of engineering challenges and how their study relates to many vocational pathways.

Many thanks to the ASC (formerly the Australian Submarine Corporation) for providing funding which made the trip possible.

Mr Thierry Herman, ATP Manager
Le Fevre High School Le Fevre Maritime Engineering VET

Old and new technology students sail on the One and All

Maritime Pathway students completed their Certificate II during a four-day voyage on South Australia’s ‘tall ship’ the One and All. Twenty students and four teachers spent four days and three nights at sea applying maritime operations and learning to sail this traditional sailing ship.

The weather was kind to the crew and fair conditions meant that most participants coped well. This experience included aspects of traditional sail handling and navigation and also a taste of the modern technologies of global positioning systems and radar more common to voyaging nowadays.

A course was set for Kangaroo Island followed by a visit to Snug Cove, a small anchorage on the far west end of Kangaroo Island, before returning to Port Adelaide via Stansbury.

To see photos of this year’s voyage visit the Maritime Section of the Le Fevre High website www.lefevrehs.sa.edu.au/curriculum/maritime-high-school-programs/maritime-opportunities/

Le Fevre students meet defence personnel at the Engineers Australia Conv.

The 2015 crew at anchor at Snug Cove, Kangaroo Island
Le Fevre Maritime Engineering VET Class

The 2014 Maritime Pathway Engineering class had the opportunity to visit the Adelaide class frigate, HMAS Newcastle. There was a particular focus on the engineering systems and career opportunities offered by defence services.

Participants maintained a clear focus on their development throughout the year. We have found that students have a clear advantage with job and apprenticeship opportunities. Students also received further training at a local marine engineering company, which sees this course as a source of potential apprentices.

During the year there was also an opportunity to visit J & H Williams in Port Adelaide. Their Managing Director, Craig Williams addressed students who have started a project to work together in 2015 with laser cutting and 3D printing. The course is recommended for students considering engineering degrees, with the practical experience and knowledge useful for their future university studies.

Le Fevre goes underwater

Academic maritime classes at Le Fevre High School continue to find new exciting programs and projects to introduce students to the technologies found in naval architecture and marine engineering.

Under the guidance of teacher, Mr Thierry Herman, students explored submarine technologies and constructed underwater vehicles.

With support from Re-Engineering Australia and DECD, the class was created to pursue this area of maritime study. Students studied the principles relevant to underwater vessels, and built and tested models in the test tank at Le Fevre High School.

Thierry’s Air Warfare Destroyer (AWD) units of work were used with this study and these excellent resources can be downloaded from the Le Fevre High website. Included are worksheets for teachers and students with links to related sites and is recommended for mathematics and science areas in particular.


Leading logistics

A new Leading Logistics certificate program will commence in 2015 at the new Harbour View Campus in Port Adelaide.

This is a Certificate III in Logistics Business being led and developed by Ocean View College and supported by the Maritime High School and Australian Maritime College.

The course has been developed to explore the various pathways into transport and logistics, which are both vital areas of maritime industries.

The campus, which is in a central location in Port Adelaide, will help students from the broader Adelaide area access this opportunity.

Significant future technologies are being developed and utilised to improve efficiency in these industries and will be a part of these studies. Partners such as Flinders Ports will add an industry context for students.