

Invitation for Students to Apply Defence Industry Pathways Program (DIPP) 2020 Outline

17 October 2019

Dear DIPP17 Applicant School,

Please find an application form and information evening flyer attached for the 2020 Defence Industry Pathways Program (DIPP) to be delivered by TAFESA in semester 1, 2020. The semester length Defence Industry Pathways Program (DIPP) has a focus on advanced manufacturing and design, and developing high-level employability skills for young people seeking to enter the defence industries.

DIPP is a collaborative approach that is delivered by TAFESA Regency campus, funded by ASC Shipbuilding Pty Ltd through Commonwealth funding and supported by the Advanced Technology Project managed within DECD. As part of the semester course, students complete a SACE Stage 1 accredited Design and Technology 10 credit unit course including CAD design and 3D printing. In addition, students will develop knowledge and skills in advanced manufacturing technologies while completing practical activities.

We are strongly encouraging females and aboriginal students in years 10 or 11 to apply who have a sound background and interest in:

- Science, technology, engineering and mathematics (STEM)
- Problem solving
- Working in teams

Applications are due by COB Friday 22nd November, 2019 (Term 4, Week 6).

Register to see the current DIPP16 Graduation on Tuesday 10th December, 2019 with Password: **ATP** at <https://www.eventbrite.com.au/e/16th-defence-industry-pathways-program-dipp16-graduation-tickets-77260715881>

Yours sincerely

Dr Sarah Baker

Manager, Advanced Technology Project, DECD

Phone: 8226 4362 or email: sarah.baker@sa.gov.au



DEFENCE INDUSTRY PATHWAYS PROGRAM (DIPP) 2020

Student APPLICATION FORM

Background

ASC Shipbuilding Pty Ltd provides access for students to study a semester length Defence Industry Pathways Program (DIPP) delivered by TAFESA Regency campus. The DIPP course provides Year 10 and 11 students with opportunities to develop vocational skills as well as the ability to study a SACE accredited course with a focus on Advanced Manufacturing.

DIPP - ADVANCED MANUFACTURING

With changing workforce requirements, ASC Shipbuilding Pty Ltd engaged TAFESA to develop a new DIPP program in 2014 with a focus on future skills and capabilities required in the highly skilled defence industries. The program has been such a success that we are now up to our 17th course.

As part of the semester course, students complete a SACE Stage 1 accredited Design and Technology 10 credit unit course including CAD design and 3D printing. In addition, students will develop knowledge and skills in advanced manufacturing technologies while completing practical activities.

Course Details

Semester 1 2020, **Tuesdays** 9:00am - 3:00pm, starting Tuesday 4/2/2020 to 1/7/2020

No course fee (Funded by ASC Shipbuilding Pty Ltd)

Students will be provided with WHS safety boots, top and pants

Venue, TAFESA Regency campus, Advanced Manufacturing Building

Lecturer: Anthony Tonkin 8348 1979 or anthony.tonkin@tafesa.edu.au

Applications are due by **Term 4: Week 6, Friday 22nd November, 2019.**

Graduation: Tuesday 1st of July, 2020 2-3 pm (*location to be advised*)

Who should apply?

This program is designed for Year 10 or 11 students.

Girls and aboriginal students are particularly encouraged to apply.

Criteria for selection into the DIPP program include those students who have a sound background and ability in:

- Science engineering technology and mathematics subjects (STEM)
- Problem solving
- Working in teams



NOTE: The applicant is to complete the two sections below.

Please note: *For previous application rounds ATP have received more than double the number of applications for available DIPP positions. The successful students have demonstrated a sound background and ability in two or more STEM (science, technology, engineering and mathematics) disciplines, problem solving and working in teams. Most of the successful applicants had achieved highly (B or A level grades) in maths, science and/or technology subjects or demonstrated a strong interest and motivation in succeeding in the DIPP program. ATP also noted that many of the successful applicants fully utilised the 200 words available for each of the sections on why they would like to be accepted for the DIPP program and its relevance to their career directions.*

I would like to be accepted into the DIPP17 semester course because? (up to 200 words)

My career directions are? (Up to 200 words)

TEACHER REFEREE STATEMENT and ENDORSEMENT

Name of Teacher:			
Phone:		Teacher Email:	
Supporting statement:			
Signature:		Date: / / 2019	

ENDORSEMENT BY THE STUDENT'S PRINCIPAL

Name of Principal:			
Phone:		Principal Email:	
Signature:		Date: / / 2019	

THIS APPLICATION - TO BE CONSIDERED for New DIPP Course – Semester 2, Cardign College, 2020

<p>If you are not selected for the ASC-Regency TAFE DIPP course, would you be interested in having this completed application considered for a 2020 Semester 2 'Southern DIPP' course based at Cardijn College - Marcellin Campus, Noarlunga?</p> <p><i>Course content will include Computer Aided Design (CAD), Electrotechnology and Metal Engineering and visits to Defence Industry Primary Providers & Virtual Welding at Regency TAFE.</i></p>	Yes	No
	<input type="checkbox"/>	<input type="checkbox"/>

CAREGIVER PERMISSION (Please type or print neatly)

I provide permission for:

- My son / daughter to be involved in the DIPP17 program.
- The information provided in this application to be made available to the following organisations outside of Department for Education, TAFESA and the ASC Shipbuilding Pty Ltd to enable communication between those organisations and the applicant and applicant's family and for any duty of care requirements.

Name:			
Address:			
Phone:		Email:	
Signature:		Date: / / 2019	

Please note: Electronic signatures will be accepted.

DEFENCE INDUSTRY PATHWAYS PROGRAM (DIPP) 2019

INFORMATION EVENING

Developing future defence industry workforce skills

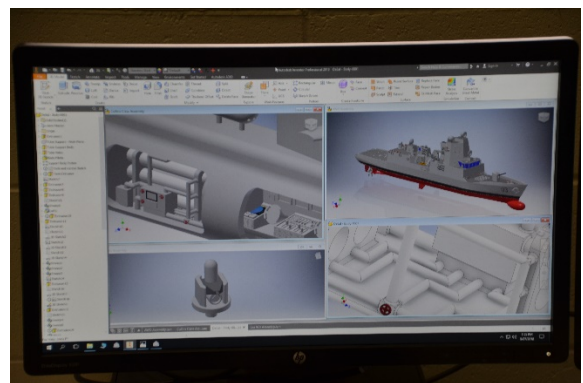
The Maritime Skills Centre (MSC) and ASC Shipbuilding Pty Ltd are preparing secondary students for a career in the state's defence industries. The MSC have engaged TAFESA to develop the Defence Industry Pathways Program (DIPP), which focuses on future skills and capabilities required in the highly skilled defence industry. The aim is to expose students to skill sets that can be applied to all engineering and advanced manufacturing career pathways.

The Advanced Manufacturing Centre based at Regency TAFE houses some of the most advanced manufacturing technology in Australia. In this course, Year 10 and 11 students will focus on Advanced Manufacturing while achieving 10 Stage 1 SACE credits in Design and Technology.

This DIPP program requires students to design and build a model destroyer (individual) and patrol vessel (group). Students produce a design brief by using industry-standard design and prototyping applications. They then test and analyse their designs to determine methods of improvement prior to manufacturing the final design solution.

The students test and analyse their model's performance, determine improvements and refine their model using state-of-the-art 3 dimensional modelling software. The students also use this software to test and analyse the effectiveness of the model's design.

The results are then used to inform the design of the final models. Students use reverse engineering techniques, which involves scanning the design in three dimensions and then creating its mathematical geometry coordinates.



DIPP17 Information Evening

Parents, students and teachers are encouraged to attend an information evening;

When: Wednesday 6/11/2019

Time: 6:00 to 7:00pm

Where: TAFESA Regency Park campus, Computer room H07

RSVP: by COB Wednesday 6/11/2019 to Anthony Tonkin 83481979
anthony.tonkin@tafesa.edu.au or Leigh White 8348 4422.

Parking details: Off Regency Road, Car Park 3, Southern side (map below).

