RTO Name: **Skills Generation**		RTO NO: **41008**
VET Course Code and Name:		
MEM20413 - Certificate II in Engineering Pathways (build a Drone engineering learning project) AVI30316 - Certificate III in Aviation (Remote Pilot - Visual Line of Sight)		

BSHS Subject Name	Years	Subject Code	ATAR	QCE Credits	VET	Additional
Certificate II in Engineering Pathways (Drones) **Certificate III in Aviation (Remote Pilot- Visual Line of Sight**	10/11/12	VDR	N	Up to 4	YES	**Dual qualifications VETIS funded**

Program Manager: Narelle Hayne

Course Outline:

This course is designed for students to build their own drone as they proceed through the course. Students learn the engineering pathways theory and apply it in a workshop setting, building their own drone. Once completed, students have an opportunity to learn the first principles of flying, using drones they have built themselves - an introduction to potential future school based learning in the CASA accredited AVI30316 Certificate III in Aviation (Remote Pilot- Visual Line of Sight) which is the companion course to this Engineering Pathways stream.

Course Content:

Certificate II in Engineering Pathways - Drone		
MEM13014A	Apply principles of occupational health and safety in the work environment	Core
MEMPE005A	Develop a career plan for the engineering and manufacturing industry	Core
MEMPE006A	Undertake a basic engineering project	Core
MSAENV272B	Participate in environmentally sustainable work practices	Core
MSAPMSUP106A	Work in a team	Elective
MEM16006A	Organise and communicate information	Elective
MEM16008A	Interact with computing technology	Elective
MEM18001C	Use hand tools	Elective
MEM18002B	Use power tools/hand held operations	Elective
MEMPE001A	Use engineering workshop machines	Elective
MEMPE002A	Use electric welding machines	Elective
MEMPE007A	Pull apart and re-assemble engineering mechanisms	Elective

Competencies delivered in other courses and may affect new learning and QCE points awarded. Subject to change.

Certificate III in Aviation (Remote Pilot – Visual Line of Sight)		
AVIE0001	Operate aeronautical radio	Core
AVIF0013	Manage human factors in remote pilot aircraft systems operations	Core
AVIF3023	Apply regulations and policies during remote pilot aircraft systems operations	Core

Date of Publication: 070818
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Approval 1: Curriculum HOD
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NATIONALLY RECOGNISED TRAINING

AVIH3019	Navigate remote pilot aircraft systems	Core
AVIK3002	Use infotechnology devices in an aviation workplace	Core
AVIW3037	Manage remote pilot aircraft systems pre- and post-flight actions	Core
AVIW3038	Operate and manage remote pilot aircraft systems	Core
AVIY3073	Control remote pilot aircraft systems on the ground	Core
AVIY3074	Launch remote pilot aircraft systems	Core
AVIY3075	Control remote pilot aircraft systems in normal flight	Core
AVIY3076	Recover remote pilot aircraft systems	Core
AVIY3077	Manage remote pilot aircraft systems in abnormal flight situations	Core
AVIY3078	Manage remote pilot aircraft systems energy source requirements	Core
AVIZ3052	Apply situational awareness in remote pilot aircraft systems operations	Core

Students may gain recognition for skills that they have acquired from other subjects/courses to complete some Units of Competency.

Assessment Outline:

This is a competency-based course. Students will have a number of opportunities (generally three) to demonstrate that they can competently complete the set activities over the course of study.

Students are assessed using a variety of techniques such as questioning, folio of work, workplace activities and teacher observation.

Career Pathways:

The qualification is intended for people interested in exposure to an engineering or related working environment with a view to entering into employment in that area. This qualification will equip graduates with knowledge and skills which will enhance their prospects of employment in an engineering or related working environment.

Costs:

This course is intended as a dual qualification. The Certificate II in Engineering Pathways is VETIS funded for eligible students. The Certificate III in Aviation (Remote Pilot – Visual Line of Sight) is charged at $100 if students have completed MEM20413 through Skills Generation. The course cost for students who wish to study the dual qualification under the Fee for Service arrangement is $2380. Students, through their resource hire fee, have access to the photocopied class materials and required documentation.

Student Requirements:

There are no prerequisites for this course. Students will require a laptop computer and school network access. The Microsoft Office suite is available free to students and can be accessed from the school network.

Student Information:

Bundaberg State High School does not guarantee that students will complete their qualification or Units of Competencies, however at Bundaberg State High School VET tracking/case-management of students is in place as a checking system to see that student are progressing towards completions. We encourage parent and student communication in this process. We do not guarantee an employment outcome upon completion of this course. Qualifications must be completed in a manner that meet the VET Standards for RTO's 2015.

All information is correct at time of publication but subject to change.

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