

AVI30316 Certificate 3 in Aviation (Certificate)

Learning & Assessment Overview 2020

Year 11		Year 12	
<p><b>AVI Unit 1</b> <b>Basic aeronautics and Practical RPAs flying</b></p> <p>Students will learn about the following: Direction of flight and wind, Time, Units of measurement for aeronautics, Energy, Aerodynamics, Weight and balance, Lift and drag, Propellers and rotors, RPA components, Weight and balance — launch and landing and recovery, Principles of operation — flight control, Principles of operation — remote pilot station, Aerodynamics — multirotor lift and drag, Aerodynamics — hovering and forward flight, Principles of operation — flight controls, Airspace, Obtaining information or approval Launch, Climbing, Turning, Descending, landing and recovery, NOTAMS, Form of the earth, aeronautical charts and maps, Aerodynamics — abnormal operations, Launch, Climbing, Turning, Descending, landing and recovery</p>	<p><b>AVI Unit 2</b> <b>RPAs systems and Human Factors</b></p> <p>Students will learn about the following: Weather phenomena, Weather observations, Aeronautical forecasts, Electrical terms, Function of electrical components, Electric motors, Batteries, Charging/discharging batteries, Introduction to Photography &amp; Aerial Filming, Charging/discharging batteries, Battery limitations, Electromagnetic radiation, Global Positioning System (GPS), Introduction to Photography &amp; Aerial Filming, Electromagnetic signal reliability and hazards, Basic health, Vision, spatial disorientation, illusions, Manoeuvre-based/RePL training, Stress in relation to operating RPA, Threat and error management, coordinating crew</p>	<p><b>AVI Unit 3</b> <b>RPA Legislation and planning</b></p> <p>Students will learn about: General operations, Risk assessment and management, Manoeuvre-based/RePL training, Airworthiness — general, Role equipment or sensors, Accident and incident reporting, Abnormal operations, Fail-safe, procedures and emergency actions, Operation of RPA near aerodrome, Operations of RPA above 400 ft AGL, Aviation legislation and information, Workplace based activities, Students to work in small groups to complete the previously planned activity, Team research, design &amp; build project for a simulated workplace</p>	<p><b>AVI Unit 4</b> <b>Portfolio and RePL flight Assessment</b></p> <p>Students will undertake the following activities: Portfolio simulated workplace flying tasks and the RePL flight assessment</p>
<p><b>Unit Duration</b> Yr 11 Weeks 1 - 20 (20 weeks)</p>	<p><b>Unit Duration</b> Yr 11 Weeks 21 - 38 (18 weeks)</p>	<p><b>Unit Duration</b> Yr 12 Weeks 1 - 20 (20 weeks)</p>	<p><b>Unit Duration</b> Yr 12 Weeks 21 - 33 (13 weeks)</p>
<p><b>Assessment Task/s</b> <b>Progress Exams based on content and practical applications</b></p> <p>Conditions: Ongoing inclass activities and online progressive assessments</p> <p><i>Issued: Week 1 Due: Week 20</i></p>	<p><b>Assessment Task/s</b> <b>Progress Exams based on content and practical applications</b></p> <p>Conditions: Ongoing inclass activities and online progressive assessments</p> <p><i>Issued: Week 21 Due: Week 38</i></p>	<p><b>Assessment Task/s</b> <b>Progress Exams based on content and practical applications</b></p> <p>Conditions: Ongoing inclass activities and online progressive assessments</p> <p><i>Issued: Week 1 Due: Week 20</i></p>	<p><b>Assessment Task/s</b> <b>RePL and AROC CASA Examinations</b></p> <p>Conditions: Two 1 hour exams</p> <p><i>Issued: Week 26 Due: Week 26</i></p>
<p><b>Units of Competency</b></p> <p>This certificate course is competency based and delivered in partnership with Aviation Australia (the Registered Training Organisation and Remote Aviation Australia.</p> <p>Completion of a unit of competency cannot be compartmentalised into term by term or semester by semester units. Assessment is ongoing throughout the course and students will be given multiple opportunities to demonstrate competency. Many of the assessments cannot be completed until the students complete their 120 hour minimum work placement where they are assessed on the job.</p> <p>Students will be provided with more detailed information via the Training and Assessment Strategy.</p>		<p><b>Units of Competency</b></p> <p>AVIE0001 Operate aeronautical radio AVIF0013 Manage human factors in remote pilot aircraft systems operations AVIF3023 Apply regulations and policies during remote pilot aircraft systems operations AVIH3019 Navigate remote pilot aircraft systems AVIK3002 Use info technology devices in an aviation workplace AVIW3037 Manage remote pilot aircraft systems pre- and post-flight actions AVIW3038 Operate and manage remote pilot aircraft systems</p>	<p><b>RePL Practical Assessment</b></p> <p>Conditions: Practical demonstration of competencies. Time as required.</p> <p><i>Issued: Week 27 Due: Week 33</i></p>
		<p>AVIY0073 Control remote pilot aircraft systems on the ground AVIY0074 Launch remote pilot aircraft systems AVIY0075 Control remote pilot aircraft systems in normal flight AVIY0076 Recover remote pilot aircraft systems AVIY0077 Manage remote pilot aircraft systems in abnormal flight situations AVIY0078 Manage remote pilot aircraft systems energy source requirements AVIZ0052 Apply situational awareness in remote pilot aircraft systems operations</p>	