



Module 10 – Aviation legislation – Syllabus and study guide

SYLLABUS	LEARNING OUTCOMES	Regulatory References and Study Material
<p><b>10.1 Regulatory framework</b></p>		
<p>1. Role of International Civil Aviation Organisation (ICAO)</p> <p>2. Role of CASA</p> <p>3. Relationship between Parts 21, 42, 66, 145 and 147 of CASR 1998</p> <p>4. Relationship with other aviation authorities.</p>	<p><b>Understanding the suite of maintenance regulations</b></p> <p>1. Understand the role of ICAO.</p> <p>2. Understand the role and functions of CASA. Overview of CASA’s Regulatory Philosophy.</p> <p>3. Understand the interactions and applicability of each of CASR Parts: 21, 42, 66, 145 and 147.</p> <p>4. Understand the relationship between CASA and other National Aviation Authorities (NAAs).</p>	<p>1. See:</p> <ul style="list-style-type: none"> <li>• <a href="#">ICAO</a> website</li> <li>• <a href="#">Department of Infrastructure, Transport, Regional Development and Communications</a> website</li> </ul> <p>2. See:</p> <ul style="list-style-type: none"> <li>• <a href="#">Civil Aviation Act 1988</a> – Part II</li> <li>• <a href="#">CASA</a> website               <ul style="list-style-type: none"> <li>– <a href="#">CASA’s Regulatory framework</a></li> <li>– <a href="#">CASA regulatory philosophy</a> and</li> <li>– The Minister’s <a href="#">Statement of Expectations</a> for CASA.</li> </ul> </li> </ul> <p>3. See:</p> <ul style="list-style-type: none"> <li>• <a href="#">CASA Regulatory Structure (bubble diagram)</a></li> <li>• <a href="#">CASRs (1998) - Parts: 21, 42, 66, 145 and 147.</a></li> </ul> <p>4. See:</p> <ul style="list-style-type: none"> <li>• <a href="#">Department of Infrastructure, Transport, Regional Development and Communications</a> website               <ul style="list-style-type: none"> <li>– Australian participation in ICAO activities</li> <li>– Standards and Recommended Practices (SARPs) – ICAO Annexes 6 and 8 to Chicago Convention</li> </ul> </li> </ul>



		– Bilateral agreements
<b>10.2 Part 66 Certifying staff</b>		
1. Detailed understanding of Part 66 of CASR 1998	<p><b>Maintenance licensing – certification of maintenance – maintenance training (Part 66 and Part 147)</b></p> <ol style="list-style-type: none"> <li>1. Understand Part 66: <ul style="list-style-type: none"> <li>– Regulations</li> <li>– Manual of Standards (MOS)</li> <li>– Acceptable Means of Compliance and Guidance Material (AMC/GM)</li> <li>– Licence categories and subcategories (Cat A, Cat B1 &amp; B2 and Cat C licences)</li> <li>– Aircraft type ratings</li> <li>– Licence exclusions</li> <li>– Training (Basic knowledge and basic practical experience requirements).</li> </ul> </li> <li>2. Understand licence scope, privileges and responsibilities (including the effect of exclusions on a licence). <ul style="list-style-type: none"> <li>– Who can certify for maintenance and how to certify?</li> </ul> </li> <li>3. Overview of Part 147 Maintenance training organisations</li> </ol>	<ol style="list-style-type: none"> <li>1. See: <ul style="list-style-type: none"> <li>• <a href="#">Part 66 of CASR 1998</a></li> <li>• <a href="#">Part 66 Manual of Standards (MOS)</a></li> <li>• <a href="#">Part 66 AMC/GM document</a></li> </ul> </li> <li>2. See: <ul style="list-style-type: none"> <li>• Section 66.A.20 – Privileges, of Part 66 MOS</li> <li>• Section 66.A.45 of the Part 66 MOS</li> <li>• <a href="#">Part 66 guidance material</a> (Advisory Circulars) <ul style="list-style-type: none"> <li>– AC 66-04</li> <li>– AC 66-05</li> <li>– AC 66-08 - Part 66 aircraft engineer licences and privileges</li> </ul> </li> </ul> </li> <li>3. Part 66 licensing training, see:</li> </ol>



		<ul style="list-style-type: none"> <li>• <a href="#">Part 147 of CASR 1998</a></li> <li>• <a href="#">Part 147 Manual of Standards (MOS)</a></li> <li>• <a href="#">Part 147 AMC/GM document</a></li> </ul>
<p><b>10.3 Part 145 – Approved maintenance organisations</b></p>		
<p>1. Detailed understanding of Part 145 of CASR 1998</p>	<p><b>Approved Maintenance Organisations (AMO)</b></p> <ol style="list-style-type: none"> <li>1. Understand Part 145:             <ul style="list-style-type: none"> <li>– Regulations</li> <li>– Manual of Standards (MOS)</li> <li>– Acceptable Means of Compliance and Guidance Material (AMC/GM)</li> </ul> </li> <li>2. Understand the Part 145 AMOs:             <ul style="list-style-type: none"> <li>– scope of approval (i.e. approval rating and maintenance capability)</li> <li>– privileges that apply to an approval rating</li> <li>– The AMOs Exposition document</li> </ul> </li> <li>3. Requirements for an AMO organisation, including requirements in relation to:             <ul style="list-style-type: none"> <li>– Facilities and Personnel requirements</li> <li>– Employee qualifications</li> <li>– Role &amp; requirements for certifying employees</li> <li>– Certification authorisations</li> <li>– Certification of maintenance</li> <li>– Training and assessment</li> <li>– Tools, equipment and materials</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. See:             <ul style="list-style-type: none"> <li>• <a href="#">Part 145 of CASR 1998</a></li> <li>• <a href="#">Part 145 Manual of Standards (MOS)</a></li> <li>• <a href="#">Part 145 AMC/GM document</a></li> </ul> </li> <li>2. Part 145 Manual of Standards (MOS)</li> <li>3. Part 145 Manual of Standards (MOS)             <ul style="list-style-type: none"> <li>• <a href="#">Part 145 guidance material</a> (Advisory Circulars)                 <ul style="list-style-type: none"> <li>– AC 145-02 Human Factors guidelines for aircraft maintenance</li> <li>– CASA resource – <a href="#">Human Factors for Engineers</a></li> </ul> </li> </ul> </li> </ol>



	<ul style="list-style-type: none"> <li>– Acceptance and Storage of Components and Parts.</li> <li>– Fabricating parts - FITCOM</li> <li>– Maintenance data</li> <li>– Maintenance records</li> <li>– Quality Management System</li> <li>– Safety Management System (SMS)</li> <li>– Human Factors (HF) training for personnel</li> </ul>	
<b>10.4 Air operations</b>		
<ol style="list-style-type: none"> <li>1. Air Operators' Certificates</li> <li>2. Operators' responsibilities, in particular regarding continuing airworthiness and maintenance</li> <li>3. Aircraft maintenance program</li> <li>4. MEL/CDL</li> <li>5. Documents to be carried onboard</li> <li>6. Aircraft placarding (markings).</li> </ol>	<p><b>Air operations – sectors and rules</b></p> <ol style="list-style-type: none"> <li>1. AOCs and operating certificates</li>   <li>2. Understanding operator's responsibilities for continuing airworthiness and maintenance</li> </ol>	<ol style="list-style-type: none"> <li>1. See:             <ul style="list-style-type: none"> <li>• Division 2 of Part III of the <a href="#">Civil Aviation Act 1988</a></li> <li>• CASA - Air Operator's Certificate (AOC) suite of Manuals Vols 1 to 4:                 <ul style="list-style-type: none"> <li>○ <a href="#">Volume 1– General matters</a></li> <li>○ <a href="#">Volume 2 – Flying operations</a></li> <li>○ <a href="#">Volume 3 – Airworthiness</a></li> <li>○ <a href="#">Volume 4 – Specialist areas</a></li> </ul> </li> </ul> </li> <li>2. See CASR Parts (and their relevant MOS):             <ul style="list-style-type: none"> <li>• <a href="#">Part 90</a> – Additional airworthiness requirements</li> <li>• <a href="#">Part 91</a> – General operating and flight rules</li> <li>• <a href="#">Part 119</a> – Australian air transport operators— certification and management</li> <li>• <a href="#">Part 121</a> – Australian air transport operations— larger aeroplanes</li> <li>• <a href="#">Part 132</a> – Limited category aircraft</li> <li>• <a href="#">Part 133</a> – Australian air transport operations— rotorcraft</li> <li>• <a href="#">Part 135</a> – Australian air transport operations— smaller aircraft</li> <li>• <a href="#">Part 137</a> – Aerial application operations—other than rotorcraft</li> </ul> </li> </ol>



3. Aircraft maintenance program

4. MEL/CDL

5. Documents to be carried onboard

6. Understand the requirements for nationality marks, registration marks and aircraft registration plates, interior & exterior emergency exits and lighting (aircraft markings), and operating aircraft with inoperative equipment (placarding)

- [Part 138](#) – Aerial work operations

3. See:

- CASA - Air Operator's Certificate (AOC) Manual:
  - [Volume 3 – Airworthiness](#)
- [CASR Subpart 42.J](#)
- [CASR Part 42 MOS Chapter 2](#)

4. See:

- [Part 91](#)
  - [Subpart 91Y – Minimum equipment lists](#)

5. See:

- [Part 91](#), Division 91.C.3 – Flight related documents

6. See:

- [Part 45](#) – Display of nationality marks, registration marks and aircraft registration identification plates
  - [Part 45 MOS](#)
- [Part 90](#)
  - [Part 90 MOS](#)
- [Part 91](#), Division 91.C.6 (r. 91.150)



<p><b>10.5 Certification of aircraft, parts and appliances</b></p>		
<p>(a) General</p> <ol style="list-style-type: none"> <li>General understanding of Parts 21, 23, 25, 27 and 29 of CASR 1998.</li> </ol> <p>(b) Documents</p> <ol style="list-style-type: none"> <li>Certificates of Airworthiness</li> <li>Restricted Certificates of Airworthiness</li> <li>Special Flight Permits</li> <li>Certificates of Registration</li> <li>Noise Certificates</li> <li>Weight Schedules</li> <li>Radio Station Licences and Approvals</li> </ol>	<p><b>Certification of aircraft, parts and appliances</b></p> <ul style="list-style-type: none"> <li>Overview and understanding of CASR Part 21</li> <li>Overview of certification &amp; airworthiness standards – CASR Part 23, 25, 27 &amp; 29.</li> <li>Production Approval Holders (PAH) – obligations and privileges</li> <li>Design Approval Holders – 21.M Authorised Persons/Delegates for design changes, 21.J Design Organisations – obligations and privileges</li> <li>Aircraft Type Certificates (TC) and Type Acceptance Certificates (TAC)</li> <li>Supplemental Type Certificates (STC)</li> <li>Certificates of Airworthiness (CofA) – explain Standard Certificates and Special Certificates</li> <li>Special Flight Permits</li> <li>Aircraft Registration – Certificate of Registration</li> <li>Noise Certificates (Air Services Australia)</li> </ul>	<p>(a) General</p> <ol style="list-style-type: none"> <li>See: <ul style="list-style-type: none"> <li><a href="#">Part 21</a> – Certification and airworthiness requirements for aircraft and parts <ul style="list-style-type: none"> <li><a href="#">Part 21 MOS</a></li> </ul> </li> <li><a href="#">Part 23</a> – Airworthiness standards for aeroplanes in the normal, utility, acrobatic or commuter category</li> <li><a href="#">Part 25</a> – Airworthiness standards for aeroplanes in the transport category</li> <li><a href="#">Part 27</a> – Airworthiness standards for rotorcraft in the normal category</li> <li><a href="#">Part 29</a> – Airworthiness standards for rotorcraft in the transport category</li> </ul> </li> </ol> <p>(b) Documents</p> <ol style="list-style-type: none"> <li>Certificates of airworthiness <ul style="list-style-type: none"> <li>Subpart 21.H, of Part 21 of CASR</li> <li><a href="#">Part 21 Advisory Circulars</a> – AC21-01, AC21-02, AC21-03, AC21-04, AC21-05, AC21-06, AC21-07, AC21-08, AC21-10, AC21-11, AC21-30, AC21-31.</li> </ul> </li> <li>Restricted certificates of airworthiness <ul style="list-style-type: none"> <li>Subpart 21.H, of Part 21 of CASR</li> <li>AC21-06</li> </ul> </li> <li>Special flight permits <ul style="list-style-type: none"> <li>Subpart 21.H, of Part 21 of CASR</li> <li>AC21-09</li> </ul> </li> <li>Certificates of registration <ul style="list-style-type: none"> <li><a href="#">Part 47</a> of CASR</li> </ul> </li> </ol>



5. Noise certificates
  - Airservices Australia – [Aircraft noise regulations](#)
  - [Air Navigation \(aircraft noise\) Regulations 2018](#)
    - Definitions, Part 1
    - Division 1 and Division 2, Part 2
6. Weight schedules
  - [Subpart 121.J](#) – Weight and balance, of Part 121 of CASR
  - [CAO 100.7](#)
7. Radio station licences and approvals
  - [Part 64](#) – Authorisations for non-licensed personnel
    - Subpart 64.A—Preliminary
      - Definition – aeronautical radio operator certificate
    - Subpart 64.B—Transmission on aeronautical radio frequencies
    - Subpart 64.C—Taxiing aeroplanes



10.6 Continuing airworthiness		
<p>(a)</p> <p>1. Detailed understanding of Part 21 of CASR 1998</p> <p>(b)</p> <p>1. Detailed understanding of Part 42 of CASR 1998</p>	<p><b>Continuing airworthiness</b></p> <ul style="list-style-type: none"> <li>• ADs, SoD, AD, AMOCs</li> <li>• CASA Airworthiness Bulletins, SAIBs, SIBs, Advisory Material</li> <li>• Failures, Malfunctions and Defects</li> <li>• Defect reporting, Maintenance error reporting, unapproved parts reporting</li> <li>• Understanding <b>Part 42</b> – CAMO, CRS, Airworthiness Review (ARC) and findings</li> <li>• Approved Maintenance Program (AMP)</li> <li>• Inspection Schedules- Manufacturer’s schedules/checklists</li> <li>• ICA – Maintenance Data</li> <li>• Data used for Mods and Repairs</li> <li>• Performance rules (standards) for carrying out maintenance</li> <li>• Continuing Airworthiness Records – Logbooks, Task cards, workshop work packs, component log cards/records</li> <li>• Control of unserviceable components, acceptance of parts</li> <li>• Form 1 – Authorised Release Certificate, CRS for components, Certificates of Conformity</li> </ul>	<p>(a)</p> <p>1. See:</p> <ul style="list-style-type: none"> <li>• <a href="#">Part 21</a> – Certification and airworthiness requirements for aircraft and parts, of CASR <ul style="list-style-type: none"> <li>○ <a href="#">Part 21 Advisory Circulars</a></li> </ul> </li> </ul> <p>(b)</p> <p>2. See:</p> <ul style="list-style-type: none"> <li>• <a href="#">Part 42</a> – Continuing airworthiness requirements for aircraft and aeronautical products, of CASR <ul style="list-style-type: none"> <li>○ <a href="#">Part 42 MOS</a></li> <li>○ <a href="#">Part 42 AMC/GM</a></li> <li>○ <a href="#">AC 20-06</a> – Defect reporting</li> </ul> </li> </ul> <p><b>Continuing Airworthiness is based upon the standards set in the initial Certification and approvals made under Part 21</b></p>





<p><b>10.7 Applicable national and international requirements</b></p>		
<p>(a)</p> <ol style="list-style-type: none"> <li>1. Management programs, maintenance checks and inspections</li> <li>2. Master Minimum Equipment Lists (MMEL), Minimum Equipment Lists (MEL), Dispatch Deviation Lists</li> <li>3. Airworthiness Directives</li> <li>4. Service Bulletins, manufacturers' service information</li> <li>5. Modification and repairs</li> <li>6. Maintenance documentation: maintenance manuals, structural repair manuals, illustrated parts catalogue, etc.</li> </ol> <p>(b)</p> <ol style="list-style-type: none"> <li>1. Continuing airworthiness</li> <li>2. Minimum equipment requirements — test flights</li> <li>3. ETOPS, maintenance and dispatch requirements</li> <li>4. All weather operations: categories 2 and 3 operations.</li> </ol>	<p><b>Maintenance – other requirements - Australia/international</b></p> <ul style="list-style-type: none"> <li>• Functional Checks, Operational checks, daily inspections, After-flight inspections,</li> <li>• Scheduled Maintenance – A, B, C, D Checks</li> <li>• Maintenance Planning, Scheduling</li> <li>• Service Bulletins (SBs) - Alert SB, SBs for: engine conversion, modifications and repairs</li> <li>• Service Letters</li> <li>• Maintenance documentation, Maintenance Release, Flight log/Tech log</li> <li>• MMEL, MEL, CDL</li> <li>• Test flights, Maintenance Check flights</li> <li>• ETOPS, EDTO, dispatch requirements</li> <li>• All weather operations, De-icing, servicing &amp; replenishing tasks</li> <li>• Trend monitoring, Reliability reports/data</li> <li>• Maintenance Control System &amp; Manual</li> <li>• Pilot/owner Maintenance</li> </ul>	<p>(a)</p> <ol style="list-style-type: none"> <li>1. See: <ul style="list-style-type: none"> <li>• Part 42 of CASR <ul style="list-style-type: none"> <li>○ <a href="#">Subpart 42.G</a> – Continuing airworthiness management organisations (CAMO) <ul style="list-style-type: none"> <li>▪ <a href="#">Part 42 MOS</a></li> <li>▪ <a href="#">Part 42 AMC/GM</a></li> </ul> </li> <li>○ <a href="#">Subpart 42.C</a></li> <li>○ <a href="#">Subpart 42.J</a></li> <li>○ <a href="#">Subpart 42.D</a> – Maintenance <ul style="list-style-type: none"> <li>▪ Division 42.D.4</li> <li>▪ Division 42.D.5</li> <li>▪ Division 42.D.6</li> <li>▪ Division 42.D.7</li> </ul> </li> <li>○ <a href="#">Subpart 42.E</a></li> <li>○ <a href="#">Subpart 42.H</a></li> </ul> </li> <li>• <a href="#">Part 145</a> – Continuing airworthiness–Part 145 approved maintenance organisations (AMO) <ul style="list-style-type: none"> <li>○ <a href="#">Part 145 MOS</a></li> </ul> </li> </ul> </li> <li>2. MMEL, MEL, CDL(DDL) see: <ul style="list-style-type: none"> <li>• <a href="#">Part 91</a> – General operating and flight rules <ul style="list-style-type: none"> <li>○ Subpart 91Y – Minimum equipment lists</li> </ul> </li> <li>• CDL – r.42.015 of CASR</li> </ul> </li> <li>3. See: <ul style="list-style-type: none"> <li>• ADs – <a href="#">CASR Part 39</a>, r.42.120 of CASR</li> </ul> </li> <li>4. See:</li> </ol>



- Service Bulletins and Manufacturer's service instructions are also considered to be 'maintenance documentation / approved maintenance data'. Compliance with an SB may form part of the requirement of an Airworthiness Directive (AD).

- See Section 4.7 of [AC 39-01](#)

5. See:

- [Subpart 21.M](#) – Designs of modifications of, and repairs to, aircraft, aircraft engines, propellers and appliances, of CASR
- [Part 42](#) of CASR
  - r.42.125
  - r.42.325
- [Part 145 MOS](#)
  - 145.A.45
  - 145.A.65 (b) 7.

6. See:

- [Part 21](#) of CASR
  - r.21.008 – meaning of technical data
- [Part 42](#) of CASR
  - r.42.130
  - r.42.150
- [Part 145 MOS](#)
  - 145.A.45 – ICA, including maintenance data
  - 145.A.47
- [Part 3 – definitions](#), of Parts 42, 66, 145 and 147 of CASR
  - Clause 10 – meaning of instructions of continuing airworthiness (ICA)
  - Clause 15 – meaning of maintenance data

(b)

1. See:



- [Part 42](#) – Continuing airworthiness requirements for aircraft and aeronautical products, of CASR
  - Civil Aviation Order ([CAO 100.5](#) – General requirements in respect of maintenance of Australian aircraft).
2. See:
- Subpart 21.B (r.21.035, r.21.039) of [Part 21](#) of CASR
  - Subpart 21.F (r. 21.127) of Part 21 of CASR
  - [AC 21-47](#) Flight test safety
3. See:
- Division 121.C.1 of Subpart 121.C of [Part 121](#) of CASR (r.121.030, r.121.035)
  - [Part 121 MOS](#)
4. See:
- CAT II, III operations
    - [AC 139-19](#) – All weather operations at aerodromes
      - Definition - instrument approach classifications (AIP) – CAT I, CAT II, CAT IIIA, CAT IIIB & CAT IIIC
    - CASA’s CNS-ATM resource kit
      - [Chapter 5](#) – aircraft equipment
      - GPS receiver/navigational avionics equipment i.e. GNSS, ADS-B, etc
      - Receiver standards –certified to technical standards i.e. TSO, ETSO, ATSO