

## Annex A to AMC/GM Part 147 - Module 17 Propeller

CASA module Examinations subjects	CASA mech basics exams equavelant	CASA avionic basics exams equavelant
<b>Module 17 Propeller (B1.1 &amp; B1.2)</b>		
<b>17.1 Fundamentals</b>		
Blade element theory;	GC	Nil
High and low blade angle, reverse angle, angle of attack, rotational speed;	GC	Nil
Propeller slip;	GC	Nil
Aerodynamic, centrifugal, and thrust forces;	GC	Nil
Torque;	GC	Nil
Relative airflow on blade angle of attack;	GC	Nil
Vibration and resonance.	GC	Nil
<b>17.2 Propeller construction</b>		
Construction methods and materials used in wooden, composite and metal propellers;	GC	Nil
Blade station, blade face, blade shank, blade back and hub assembly;	GC	Nil
Fixed pitch, controllable pitch, constant speeding propeller;	GC	Nil
Propeller and spinner installation.	GC	Nil
<b>17.3 Propeller pitch control</b>		
Speed control and pitch change methods, mechanical and electrical and electronic;	GC	Nil
Feathering and reverse pitch;	GC	Nil
Overspeed protection.	GC	Nil
<b>17.4 Propeller synchronising</b>		
Synchronising and synchrophasing equipment.	GC	ED
<b>17.5 Propeller ice protection</b>		
Fluid and electrical de-icing equipment.	GC	ED
<b>17.6 Propeller maintenance</b>		
Static and dynamic balancing;	GC	Nil
Blade tracking;	GC	Nil
Assessment of blade damage, erosion, corrosion, impact damage, delamination;	GC	Nil
Propeller treatment and repair schemes;	GC	Nil
Propeller engine running.	GC	Nil
<b>17.7 Propeller storage and preservation</b>		
Propeller preservation and depreservation.	GC	Nil