



Air Transport Training College

Professional Development Centre of the Singapore Institute of Aerospace Engineers

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PCAWO M2200 Syllabus

Item	Topics
	Piston Engine Theory and Construction
1	Principles and Terminology
2	Engine Power
3	Constructional Arrangement
	Piston Engine Systems
4	Carburation and Induction
5	Ignition—Piston Engines
6	Starting, Lubrication
	Propellers
7	Principles and Terminology
8	Constructional Arrangement
9	Pitch Control (Automatic and Manual Systems)
10	Turbine Engine Application
	Turbine Engine Theory and Construction
11	Principles and Terminology
12	Constructional Arrangement
13	Propeller and Shaft Power Problems
	Turbine Engine Systems
14	Fuel Systems, Lubrication
15	Water Injection (not rotorcraft)
16	Cooling, Sealing and Bleed Air Services
17	Surge Protection and Airflow Control
18	Ice Protection (Piston/ turbine engine systems)
19	Fire Protection and Indication (Piston/ turbine engine systems)
20	Fuel Controls, Ignition – Turbine Engine
21	Starting, Controls, Electrical, Instruments & Ground Handling
22	Pods, Pylons, Cowlings and Mountings
23	Thrust Reversing (not rotorcraft)
24	Auxiliary Power Units
	Electrical and Instrument Systems
25	Electrical Fundamentals, Electrical Systems
26	Airframe Instruments, Engine Instruments
27	Test Equipment

Total Training Hours: 72 Hours