

LAWS: Multi-crew Pilot Licence (MPL)

Module Delivered In 1 programme(s) Teaching & Learning Strategies: Teaching will be conducted using briefings and practical work in an aircraft simulator. At the end of each practical section, students will be debriefed as to their progress and will be graded accordingly. Module Aim: To provide a student with a multi-crew pilot licence (MPL) by training one to the level necessary to operate as a co-pilot in a multi-engine, multi-pilot, turbine-powered commercial air transport aeropiane under visual flight rules (VFR) and instrument flight rules (IFR). Learning Outcomes On successful completion of this module the learner should be able to: L01 Perform core flying skills (specific basic single-pilot training) L02 Peform basic flying skill in a multi-crew operation under instrument flight rules. L03 Apply multi-crew operations to a multi-engine turbine aeropiane certified as a high performance aeropiane. L04 Achieve a Type Rating within an airline environment. Pre-requisite learning Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module. No incompatible Modules Interming outcomes that are too similar to the learning outcomes of this module. No incompatible modules listed Co-requisite Modules Incompatible Modules Ister No incompatible modules listed Co-requisite modules listed								
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Module Content & Assessment

Indicative Content **Flight Controls** Rolling, Yawing, Pitching, Power Adjustment, Mixture Adjustment. Human Performance Principles. Cooperation, Leadership and management skills, situation awareness, decision making Flying Take-Off, Climb, Cruise, Descend, Landing, Short field landing, Aircraf ground and pre-flight Operations. demonstrate attitudes and behaviours appropriate to the safe conduct of flight, including recognising and managing potential threats and errors; perform dispatch duties; provide flight crew and cabin crew briefings; perform pre-flight checks annanage abnormal and emergency situationsd cockpit preparation: perform engine start, perform taxi out: communicate with cabin crew, passengers and company Airmanship Lookout, Aircraft Management, Radio procedures, Cockpit management, scanning instruments. Take-off and predeparture preparation; perform take-off roll; perform transition to instrument flight rules; perform initial climb to flap retraction altitude; perform rejected take-off; perform navigation; manage abnormal and emergency situations; Emergenices Stalls, Simulated single engine failure, slow flight, loss of communication procedures. Stalls with and without power, instrument failure, Adverse weather procedures, abnormal attitude recovery, critical attitudes. Climb SID, complete climb procedures and checklists; modify climb speeds, rate of climb and cruise altitude; perform systems operations and procedures; manage abnormal and emergency situations; communicate with cabin crew, passengers and company; Navigation VFR Navigation, Cross Country. IFR Cross Country, Holding patterns, Circling, distance to a Navaid station, SID, STAR. Cruise Monitor navigation accuracy; monitor flight progress; perform descent and approach planning; perform systems operations and procedures; manage abnormal and emergency situations; communicate with cabin crew, passengers and company; ADF Orientation, Relative bearing, Homing, Station passage, QDM/QDR concept and practice, Limitations, Holding patterns, Type of holdings, Different holding entries (EM-30 / EM-31), Wind drift correction techniques, ADF approaches Descent Initiate and manage descent; monitor and perform en route and descent navigation; monitor and perform en route and descent navigation; perform holding; perform systems operations and procedures; manage abnormal and emergency situations; communicate with cabin crew, passengers and company; VOR / DME Orientation and interpretation, Concept, demonstration and practice of radial, heading and course, Station passage, TO/FROM concept and practice, Limitations. Approach Execute approach according to procedures and situation; perform precision approach; perform non-precision approach; perform approach with visual reference to ground; monitor the flight progress; perform systems operations and procedures; manage abnormal and emergency situations; perform missed approach and goaround; communicate with cabin crew, passengers and company; ADF/ VOR/DME Concept of position fixing and radio fixing, Demonstration and practice with two lines of position fixing, Relationship among OBS/HEADING/CDI, in the different phases of the holding entries. Landing Land the aircraft; Perform systems operations and procedures; manage abnormal and emergency situations. ILS, CDI versus localizer Post Flight Operations. Perform taxing and parking; perform aircraft post-flight operation; perform systems operations and procedures; manage abnormal and emergency situations; communicate with cabin crew, passengers and company. Navigation IFR Cross Country, Holding patterns, Circling, distance to a Navaid station, SID, STAR Threat and error management. The components of the TEM model; Threats, Errors, Undesired aircraft states; Countermeasures; Airmanship Cockpit management, scanning instruments Assessment Breakdown % Practical 100.00%

No Continuous Assessment

No Project

ILS

Practical							
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date			
Practical/Skills Evaluation	Skills test	1,2,3,4	100.00	n/a			
No End of Module Formal Examination							

 $\ensuremath{\mathsf{SETU}}$ Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time					
Workload Type	Frequency	Average Weekly Learner Workload			
Practicals	Every Week	4.00			
	Total Hours	4.00			

Module Delivered In								
Programme Code	Programme	Semester	Delivery					
CW_EEPLT_D	Bachelor of Science in Pilot Studies	5	Group Elective 2					