

The University of Jordan
School of Engineering



Department	Course Name	Course Number	Semester
Aircraft maintenance Engineering	Maintenance Practice III: Aircraft Practical Experience	0994351	Summer

2025 Course Catalog Description

Practical experience in aircraft maintenance typically involves hands-on tasks and activities to ensure the safety, reliability, and performance of aircraft. This course focusing in the following practical topics:

Inspection and Diagnosis: Conducting routine and detailed inspections to identify any wear, damage, or malfunction. This includes visual inspections and using diagnostic tools. **Routine Maintenance:** Performing regular maintenance tasks such as oil changes, filter replacements, and checking fluid levels. **Repair and Replacement:** Fixing or replacing faulty components, including engines, avionics, hydraulic systems, and landing gear. **Testing and Calibration:** Ensuring all systems and instruments are functioning correctly through various tests and calibrations. **Documentation:** Maintaining accurate records of all maintenance work performed, including any discrepancies and corrective actions taken. **Compliance:** Ensuring all work is done in accordance with aviation regulations and manufacturer specifications. **Safety Procedures:** Adhering to strict safety protocols to protect both the personnel and the aircraft.

Instructors

Name	E-mail	Sec	Office Hours		Lecture Time	
			Sunday	Tuesday		
MEng. Aasef Hamadneh	ahamadneh@joramco.com.jo		1:00-2:00	1:00-2:00		

Text Books

Title	Maintenance Practice	
Author(s)	EASA	
Publisher, Year, Edition	Issue 2 , 2024	

Prerequisites

Prerequisites by topic	-
Prerequisites by course	Engineering Math II for Aeronautical Engineering Students: 0994202
Co-requisites by course	-
Prerequisite for	-

Topics Covered

Week	Topics	Chapter in Text
	Inspection and Diagnosis	
	Routine Maintenance	
	Repair and Replacement	
	Testing and Calibration	
	Documentation	
	Compliance	
	Safety Procedures	

Mapping of Course Outcomes to ABET Student Outcomes							
SOs	Course Outcomes						
Evaluation							
Assessment Tools		Expected Due Date					Weight
Projects							20%
Midterm Exam							30%
Final Exam							50%
Contribution of Course to Meet the Professional Components							
Relationship to Student Outcomes							
SOs	1	2	3	4	5	6	7
Availability				X			
Relationship to Aeronautical Engineering Program Objectives (AEPOs)							
AEPO1	AEPO2		AEPO3		AEPO4		AEPO5
ABET Student Outcomes (SOs)							
1	An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics						
2	An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors						
3	An ability to communicate effectively with a range of audiences						
4	An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts						
5	An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives						
6	An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions						
7	An ability to acquire and apply new knowledge as needed, using appropriate learning strategies						
Updated by Curriculum Committee, 2025							