Module Synopsis

Specialist Diploma in Aerospace Engineering

PDC 1:	Post-Diploma Certificate in Aerospace Systems & Maintenance	(140 hours)
1.	**ET1565: Aerospace Electrical Systems**	**(20 hours)**
	This module aims to provide a fundamental knowledge on electrical systems and their applications in the aircraft. The topics include Starting and Ignition Systems; Direct Current (DC) and Alternating Current (AC) Systems; Aircraft Batteries.	
2.	**MM7018: General Maintenance Practices**	**(60 hours)**
	This module aims to further develop participant's competency and mastery of skills in maintenance practices according to the requirements and procedures stipulated by the Civil Aviation Authority of Singapore. Topics include Maintenance Procedures, Metal Joining Processes, Disassembly, Inspection and Assemble Techniques and Aircraft Handling and Servicing.	
3.	**MM7504: Aerospace Systems & Powerplant**	**(60 hours)**
	This module provides participants with working knowledge of Aircraft Systems and Powerplants, covering Principles of Fluid Power, Pumps/Compressors and Components, building up of Basic Aircraft Hydraulic and Pneumatic Systems and various Powerplants.	

PDC 2:	Post-Diploma Certificate in Aerospace Capstone & Applied Aerospace Modules	(160 hours)
1.	**MM7035: Capstone/Industry Project**	**(88 hours)**
	This module aims to provide participants with an opportunity to transform theoretical and practical knowledge real-life applications within the aerospace sector, fostering a holistic approach to problem-solving in preparation for advanced roles in the aerospace industry. The project will focus on the design of an aerospace cabin equipment, allowing participants to learn about the workflow process of a product or idea from its conceptual stage to production which includes understanding the specific requirements and constraints of aerospace environments, such as weight limitations, durability, and safety standards.	
2.	**MM7036: Applied Aerospace 1**	**(36 hours)**
	This module offers two distinct pathways: An in-depth study of human factors in aviation though module or applied aerospace module. The human factors pathway provides advanced knowledge and applications to mitigate human errors in aircraft maintenance. Alternatively, the specialised training pathway is tailored to cover various subjects that are relevant to unique requirements of the company.	
3.	**MM7037: Applied Aerospace 2**	**(36 hours)**

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This module offers an advanced study of aerospace topics via applied aerospace module (such as Aerospace Component Manufacturing, Airport Ramp Operations and Management).