

Name of Assessed Person:

Registration:

UNIT MEA148: Apply Mathematics and Physics in Aviation Maintenance

**1.
Apply mathematical
techniques in aviation
maintenance**

- a. The relevant elements and the performance criteria of the unit of competency maybe achieved off the job in simulated settings.
Assessment will be through classroom theory examination

No. of Entries	1		2		3	
Tail / Job No.						
LAME Sign.						
Date						
Simulated	Yes	No	Yes	No	Yes	No

Performance Criteria:

- 1.1 Arithmetic is used in calculations relating to aviation maintenance.
- 1.2 Basic algebra is used to solve problems relating to aviation maintenance.
- 1.3 Binary and other applicable numbering systems are used in aviation maintenance applications.
- 1.4 Simple geometric constructions are used in aviation maintenance settings.
- 1.5 Graphical representations are used in aviation maintenance settings.
- 1.6 Simple trigonometric principles and methods are applied in aviation maintenance settings.

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2. Apply Physics Laws and Principles in Aviation Maintenance	a. The relevant elements and the performance criteria of the unit of competency maybe achieved off the job in simulated settings. Assessment will be through classroom theory examination	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria

- 2.1 Statics principles and techniques are applied in aviation maintenance settings.
- 2.2 Kinetics principles and techniques are applied in aviation maintenance settings.
- 2.3 Dynamics principles and techniques are applied in aviation maintenance settings.
- 2.4 Fluid dynamics principles and techniques are applied in aviation maintenance settings.
- 2.5 Thermodynamics principles, laws and techniques are applied in aviation maintenance settings.
- 2.6 Typical applications of light characteristics and laws in aviation maintenance settings are explained.
- 2.7 The application of the principles of wave motion and sound in aviation maintenance settings are explained.

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Confirmation of Underpinning Knowledge and Skills to Apply Mathematics and Physics in Aviation Maintenance

Competency in this unit underpins competency in other aspects of the workplace role of employees with managerial responsibilities in aviation maintenance and related integrated logistic support activities. It may be appropriate to assess parts of this unit in conjunction with units relating to the performance of such aspects of the role. This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Implementation Guide).

UNIT MEA148 Apply Mathematics and Physics in Aviation Maintenance	Date/ MTO Stamp
Evidence has been confirmed of the attainment of the following pre-requisite units of competency (as they are related to attainment of the elements of competency specified in this unit). <p style="text-align: center;">Nil</p>	
Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organisation. <p style="text-align: center;">OR</p> Assessment has been conducted to determine that the underpinning knowledge and skills have been achieved in accordance with the Competency Unit.	

Certification of Unit Completion

I certify that I have reviewed the certification of the elements for this competency unit and that all of the competency unit requirements have been met.

Signed: _____ **Assessor No.** _____ **MTO:** _____ **Date:** _____

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