Name of Assessed Person: **Registration:**

UNIT MEA318: Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components					
1. **Inspect hydro-mechanical systems and components.**	a. Hydraulic systems - hydraulic accumulators, filters, reservoirs, valves, pumps, motors, actuators, regulators and direct reading gauges	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	b. Hydraulic system rigid and flexible pipelines, hoses and fittings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	c. Fuel systems - filters, valves, pumps, and rigid and flexible storage cells/tanks	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	d. Fuel system rigid and flexible pipelines, hoses and fittings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

1.1 Isolation tags already attached to the system or related systems are checked and aircraft configured for safe system inspection and operation in accordance with specified procedures.

1.2 Hydro-mechanical system and system components are visually or physically checked for external signs of defects in accordance with specified procedures while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE).

UNIT MEA318:	**Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components**				
2. **Inspect landing gear systems and components.**	e. Retraction systems ***(Note 1)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	f. Steering systems ***(Note 1)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	g. Brake systems, including anti-skid, where applicable ***(Note 1)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	h. Wheel assemblies	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

2.1 Isolation tags already attached to the system or related systems are checked and aircraft configured, including jacking, where necessary, for safe system inspection and operation in accordance with specified procedures.

2.2 Landing gear system and system components are visually or physically checked for external signs of defects in accordance with specified procedures while observing all relevant WHS requirements, including the use of MSDS and items of PPE.

***(Note 1) (Not applicable if rotary wing and fitted with skids or floats)**

Name of Assessed Person: **Registration:**

UNIT MEA318: Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components					
2. Cont'd **Inspect landing gear systems and components.**	i. Brake units ***(Note 1)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	j. Struts/oleos ***(Note 1)**	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

2.1 Isolation tags already attached to the system or related systems are checked and aircraft configured, including jacking, where necessary, for safe system inspection and operation in accordance with specified procedures.

2.2 Landing gear system and system components are visually or physically checked for external signs of defects in accordance with specified procedures while observing all relevant WHS requirements, including the use of MSDS and items of PPE.

***(Note 1) (Not applicable if rotary wing and fitted with skids or floats)**

Name of Assessed Person: **Registration:**

UNIT MEA318: Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components					
3. Inspect gaseous systems and components.	k. Pneumatic systems	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	l. Air cycle air conditioning system	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	m. Pressurisation system	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	n. Fire-extinguishing system	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

3.1 Isolation tags already attached to the system or related systems are checked and aircraft configured for safe system inspection and operation in accordance with specified procedures.

3.2 Gaseous system and system components are visually or physically checked for external signs of defects in accordance with specified procedures while observing all relevant WHS requirements.

Name of Assessed Person: **Registration:**

UNIT MEA318: Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components

3. Cont'd **Inspect gaseous systems and components.**	o. Gauges (direct reading), temperature sensors, pressurisation controllers and temperature controllers	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	p. Heat exchangers, pressure vessels, condensers, compressors, expansion turbines, humidifiers, valves and actuators	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	q. Rigid and flexible pipelines and fittings	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	r. Ducting	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

3.1 Isolation tags already attached to the system or related systems are checked and aircraft configured for safe system inspection and operation in accordance with specified procedures.

3.2 Gaseous system and system components are visually or physically checked for external signs of defects in accordance with specified procedures while observing all relevant WHS requirements.

Name of Assessed Person: **Registration:**

UNIT MEA318: Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components					
4. Inspect mechanical systems and components.	s. Mechanical operating and locking systems	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	t. Mechanical flight control systems or the mechanical elements of power-assisted flight control systems	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	u. Cables, pulleys, guides, fairleads, tension regulators, chains and sprockets	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

4.1 Isolation tags already attached to the system or related systems are checked and aircraft configured for safe system inspection and operation in accordance with specified procedures.

4.2 Mechanical system and system components are visually or physically checked for external signs of defects in accordance with specified procedures while observing all relevant WHS requirements.

Name of Assessed Person: **Registration:**

UNIT MEA318: Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components					
4. Cont'd **Inspect mechanical systems and components.**	v. Control rods, torque tubes, bellcranks, screwjacks, clutches, springs, bearings and gears	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No
	w. Control sticks, wheels, columns, trim wheels or handles, and rudder pedals	No. of Entries	1	2	3
		Tail / Job No.			
		LAME SIGN.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

4.1 Isolation tags already attached to the system or related systems are checked and aircraft configured for safe system inspection and operation in accordance with specified procedures.

4.2 Mechanical system and system components are visually or physically checked for external signs of defects in accordance with specified procedures while observing all relevant WHS requirements.

Name of Assessed Person: **Registration:**

Certification of Underpinning Knowledge and Skills to Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components

A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements of this unit of competency are being achieved under routine supervision on each type of system and on at least one (1) component of each group listed in the range conditions a) to h) that are applicable to the enterprise. 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 MEA318: Inspect aircraft hydro-mechanical, mechanical, gaseous and landing gear components	**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). **303, 305, 398**	
Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organisation. **OR** 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:** _____