

**Name of Assessed Person:**

**Registration:**

**UNIT MEA316: Inspect, Test and Troubleshoot Rotary Wing Rotor and Control Systems and Components**

|                                                                      |                                                                   |                |        |        |        |
|----------------------------------------------------------------------|-------------------------------------------------------------------|----------------|--------|--------|--------|
| <b>1.<br/>Inspect Rotor and Rotor Control Systems and Components</b> | a. Main Rotor Blades, Tail Rotor Blades                           | No. of Entries | 1      | 2      | 3      |
|                                                                      |                                                                   | Tail / Job No. |        |        |        |
|                                                                      |                                                                   | LAME Sign.     |        |        |        |
|                                                                      |                                                                   | Date           |        |        |        |
|                                                                      |                                                                   | Simulated      | Yes No | Yes No | Yes No |
|                                                                      | b. Rotor Heads, Swash Plates, Tail Rotor Pitch Control Assemblies | No. of Entries | 1      | 2      | 3      |
|                                                                      |                                                                   | Tail / Job No. |        |        |        |
|                                                                      |                                                                   | LAME Sign.     |        |        |        |
|                                                                      |                                                                   | Date           |        |        |        |
|                                                                      |                                                                   | Simulated      | Yes No | Yes No | Yes No |
|                                                                      | c. Mechanical, Powered Flight Control Components                  | No. of Entries | 1      | 2      | 3      |
|                                                                      |                                                                   | Tail / Job No. |        |        |        |
|                                                                      |                                                                   | LAME Sign.     |        |        |        |
| Date                                                                 |                                                                   |                |        |        |        |
| Simulated                                                            |                                                                   | Yes No         | Yes No | Yes No |        |

**Performance Criteria:**

- 1.1 Isolation and warning signs are fitted / installed to the system or related systems and the aircraft configured for safe system inspection and operation in accordance with relevant aircraft publications/maintenance regulations orders and standards and practices.
- 1.2 **Rotor and rotor control system** is visually or physically checked/inspected for external signs of defects in accordance with relevant aircraft publications maintenance regulations/orders and standards and practices while observing all relevant work health and safety (WHS) requirements.
- 1.3 Defects are identified and recorded in accordance with standard enterprise procedures.

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|                                                                                     |                                                     |                |        |        |        |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|--------|--------|--------|
| <b>1. Cont'd<br/>Inspect Rotor and Rotor<br/>Control Systems and<br/>Components</b> | d. Main Rotor, Intermediate or Tail Rotor Gearboxes | No. of Entries | 1      | 2      | 3      |
|                                                                                     |                                                     | Tail / Job No. |        |        |        |
|                                                                                     |                                                     | LAME Sign.     |        |        |        |
|                                                                                     |                                                     | Date           |        |        |        |
|                                                                                     |                                                     | Simulated      | Yes No | Yes No | Yes No |
|                                                                                     | e. Drive Shafts and Couplings                       | No. of Entries | 1      | 2      | 3      |
|                                                                                     |                                                     | Tail / Job No. |        |        |        |
|                                                                                     |                                                     | LAME Sign.     |        |        |        |
|                                                                                     |                                                     | Date           |        |        |        |
|                                                                                     |                                                     | Simulated      | Yes No | Yes No | Yes No |

**Performance Criteria:**

- 1.1 Isolation and warning signs are fitted / installed to the system or related systems and the aircraft configured for safe system inspection and operation in accordance with relevant aircraft publications/maintenance regulations orders and standards and practices.
- 1.2 **Rotor and rotor control system** is visually or physically checked/inspected for external signs of defects in accordance with relevant aircraft publications maintenance regulations/orders and standards and practices while observing all relevant work health and safety (WHS) requirements.
- 1.3 Defects are identified and recorded in accordance with standard enterprise procedures.

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|                                                          |                                                                   |                |        |        |        |
|----------------------------------------------------------|-------------------------------------------------------------------|----------------|--------|--------|--------|
| <b>2.<br/>Ground Test Rotor and Rotor Control System</b> | a. Main Rotor Blades, Tail Rotor Blades                           | No. of Entries | 1      | 2      | 3      |
|                                                          |                                                                   | Tail / Job No. |        |        |        |
|                                                          |                                                                   | LAME Sign.     |        |        |        |
|                                                          |                                                                   | Date           |        |        |        |
|                                                          |                                                                   | Simulated      | Yes No | Yes No | Yes No |
|                                                          | b. Rotor Heads, Swash Plates, Tail Rotor Pitch Control Assemblies | No. of Entries | 1      | 2      | 3      |
|                                                          |                                                                   | Tail / Job No. |        |        |        |
|                                                          |                                                                   | LAME Sign.     |        |        |        |
|                                                          |                                                                   | Date           |        |        |        |
|                                                          |                                                                   | Simulated      | Yes No | Yes No | Yes No |
|                                                          | c. Mechanical, Powered Flight Control Components                  | No. of Entries | 1      | 2      | 3      |
|                                                          |                                                                   | Tail / Job No. |        |        |        |
|                                                          |                                                                   | LAME Sign.     |        |        |        |
| Date                                                     |                                                                   |                |        |        |        |
| Simulated                                                |                                                                   | Yes No         | Yes No | Yes No |        |

**Performance Criteria:**

- 2.1 Aircraft and system prepared in accordance with relevant aircraft publications/maintenance regulations orders and standards and practices, for the operation of engine and rotor system.
- 2.2 Rotor and rotor control system are functionally tested, in accordance with relevant aircraft publications maintenance regulations/orders and standards and practices, for evidence of malfunction.
- 2.3 System calibration or adjustments are performed in accordance with relevant aircraft publications/ maintenance regulations/orders and standards and practices.

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|                                                                 |                                                     |                |        |        |        |
|-----------------------------------------------------------------|-----------------------------------------------------|----------------|--------|--------|--------|
| <b>2. Cont'd<br/>Ground Test Rotor and Rotor Control System</b> | d. Main Rotor, Intermediate or Tail Rotor Gearboxes | No. of Entries | 1      | 2      | 3      |
|                                                                 |                                                     | Tail / Job No. |        |        |        |
|                                                                 |                                                     | LAME Sign.     |        |        |        |
|                                                                 |                                                     | Date           |        |        |        |
|                                                                 |                                                     | Simulated      | Yes No | Yes No | Yes No |
|                                                                 | e. Drive Shafts and Couplings                       | No. of Entries | 1      | 2      | 3      |
|                                                                 |                                                     | Tail / Job No. |        |        |        |
|                                                                 |                                                     | LAME Sign.     |        |        |        |
|                                                                 |                                                     | Date           |        |        |        |
|                                                                 |                                                     | Simulated      | Yes No | Yes No | Yes No |

**Performance Criteria:**

- 2.1 Aircraft and system prepared in accordance with relevant aircraft publications/maintenance regulations orders and standards and practices, for the operation of engine and rotor system.
- 2.2 Rotor and rotor control system are functionally tested, in accordance with relevant aircraft publications maintenance regulations/orders and standards and practices, for evidence of malfunction.
- 2.3 System calibration or adjustments are performed in accordance with relevant aircraft publications/ maintenance regulations/orders and standards and practices.

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|                                           |                                                                   |                |        |        |        |
|-------------------------------------------|-------------------------------------------------------------------|----------------|--------|--------|--------|
| <b>3.<br/>Prepare for Troubleshooting</b> | a. Main Rotor Blades, Tail Rotor Blades                           | No. of Entries | 1      | 2      | 3      |
|                                           |                                                                   | Tail / Job No. |        |        |        |
|                                           |                                                                   | LAME Sign.     |        |        |        |
|                                           |                                                                   | Date           |        |        |        |
|                                           |                                                                   | Simulated      | Yes No | Yes No | Yes No |
|                                           | b. Rotor Heads, Swash Plates, Tail Rotor Pitch Control Assemblies | No. of Entries | 1      | 2      | 3      |
|                                           |                                                                   | Tail / Job No. |        |        |        |
|                                           |                                                                   | LAME Sign.     |        |        |        |
|                                           |                                                                   | Date           |        |        |        |
|                                           |                                                                   | Simulated      | Yes No | Yes No | Yes No |
|                                           | c. Mechanical, Powered Flight Control Components                  | No. of Entries | 1      | 2      | 3      |
|                                           |                                                                   | Tail / Job No. |        |        |        |
|                                           |                                                                   | LAME Sign.     |        |        |        |
| Date                                      |                                                                   |                |        |        |        |
| Simulated                                 |                                                                   | Yes No         | Yes No | Yes No |        |

**Performance Criteria:**

3.1 Relevant aircraft publications and modification status, including system defect reports, are interpreted to identify unserviceability.

**\*\* Note: Troubleshooting:** involves the use of fault finding charts or similar, to line replacement level.

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|                                                        |                                                     |                |        |        |        |
|--------------------------------------------------------|-----------------------------------------------------|----------------|--------|--------|--------|
| <b>3. Cont'd</b><br><b>Prepare for Troubleshooting</b> | d. Main Rotor, Intermediate or Tail Rotor Gearboxes | No. of Entries | 1      | 2      | 3      |
|                                                        |                                                     | Tail / Job No. |        |        |        |
|                                                        |                                                     | LAME Sign.     |        |        |        |
|                                                        |                                                     | Date           |        |        |        |
|                                                        |                                                     | Simulated      | Yes No | Yes No | Yes No |
|                                                        | e. Drive Shafts and Couplings                       | No. of Entries | 1      | 2      | 3      |
|                                                        |                                                     | Tail / Job No. |        |        |        |
|                                                        |                                                     | LAME Sign.     |        |        |        |
|                                                        |                                                     | Date           |        |        |        |
|                                                        |                                                     | Simulated      | Yes No | Yes No | Yes No |

**Performance Criteria:**

3.1 Relevant aircraft publications and modification status, including system defect reports, are interpreted to identify unserviceability.

**\*\* Note: Troubleshooting:** involves the use of fault finding charts or similar, to line replacement level.

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|                                                            |                                                                   |                |        |        |        |
|------------------------------------------------------------|-------------------------------------------------------------------|----------------|--------|--------|--------|
| <b>4.<br/>Troubleshoot Rotor and Rotor Control Systems</b> | a. Main Rotor Blades, Tail Rotor Blades                           | No. of Entries | 1      | 2      | 3      |
|                                                            |                                                                   | Tail / Job No. |        |        |        |
|                                                            |                                                                   | LAME Sign.     |        |        |        |
|                                                            |                                                                   | Date           |        |        |        |
|                                                            |                                                                   | Simulated      | Yes No | Yes No | Yes No |
|                                                            | b. Rotor Heads, Swash Plates, Tail Rotor Pitch Control Assemblies | No. of Entries | 1      | 2      | 3      |
|                                                            |                                                                   | Tail / Job No. |        |        |        |
|                                                            |                                                                   | LAME Sign.     |        |        |        |
|                                                            |                                                                   | Date           |        |        |        |
|                                                            |                                                                   | Simulated      | Yes No | Yes No | Yes No |
|                                                            | c. Mechanical, Powered Flight Control Components                  | No. of Entries | 1      | 2      | 3      |
|                                                            |                                                                   | Tail / Job No. |        |        |        |
|                                                            |                                                                   | LAME Sign.     |        |        |        |
| Date                                                       |                                                                   |                |        |        |        |
| Simulated                                                  |                                                                   | Yes No         | Yes No | Yes No |        |

**Performance Criteria:**

- 4.1 Available information from aircraft maintenance documentation, inspection and test results is used to assist in fault determination.
- 4.2 Relevant aircraft publication fault diagnosis guide and logical processes are used to ensure efficient and accurate **troubleshooting** to line replacement level.
- 4.3 Specialist advice is obtained to assist with the troubleshooting process.
- 4.4 Rotor and rotor control system faults are located and the causes of the faults are clearly identified and recorded in aircraft maintenance documentation in accordance with standard enterprise procedures.
- 4.5 Fault rectification requirements are determined.

**\*\* Note: Troubleshooting:** involves the use of fault finding charts or similar, to line replacement level.

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|                                                                       |                                                     |                |        |        |        |
|-----------------------------------------------------------------------|-----------------------------------------------------|----------------|--------|--------|--------|
| <b>4. Cont'd<br/>Troubleshoot Rotor and Rotor<br/>Control Systems</b> | d. Main Rotor, Intermediate or Tail Rotor Gearboxes | No. of Entries | 1      | 2      | 3      |
|                                                                       |                                                     | Tail / Job No. |        |        |        |
|                                                                       |                                                     | LAME Sign.     |        |        |        |
|                                                                       |                                                     | Date           |        |        |        |
|                                                                       |                                                     | Simulated      | Yes No | Yes No | Yes No |
|                                                                       | e. Drive Shafts and Couplings                       | No. of Entries | 1      | 2      | 3      |
|                                                                       |                                                     | Tail / Job No. |        |        |        |
|                                                                       |                                                     | LAME Sign.     |        |        |        |
|                                                                       |                                                     | Date           |        |        |        |
|                                                                       |                                                     | Simulated      | Yes No | Yes No | Yes No |

**Performance Criteria:**

- 4.1 Available information from aircraft maintenance documentation, inspection and test results is used to assist in fault determination.
- 4.2 Relevant aircraft publication fault diagnosis guide and logical processes are used to ensure efficient and accurate **troubleshooting** to line replacement level.
- 4.3 Specialist advice is obtained to assist with the troubleshooting process.
- 4.4 Rotor and rotor control system faults are located and the causes of the faults are clearly identified and recorded in aircraft maintenance documentation in accordance with standard enterprise procedures.
- 4.5 Fault rectification requirements are determined.

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**Name of Assessed Person:** \_\_\_\_\_

**Registration:** \_\_\_\_\_

**Certification of Underpinning Knowledge and Skills to Inspect, Test and Troubleshoot Rotary Wing Rotor and Control Systems and Components**

A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements and performance criteria of the 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 assessment conditions a) to e) 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 Assessment Guidelines).

| UNIT MEA316: Inspect, Test and Troubleshoot Rotary Wing Rotor and Control Systems and 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).<br><br><p style="text-align: center;"><b>308</b></p>                                                                                |                 |
| Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organisation.<br><br><p style="text-align: center;"><b>OR</b></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 at the time of this assessment I have reviewed the candidates' evidence of experiences for the application of skills and knowledge that it meets the requirements specified in the elements and criteria for this unit of competency.

**Signed:** \_\_\_\_\_ **Assessor No.** \_\_\_\_\_ **MTO:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Name of Assessed Person:**

**Registration:**

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