

AA TT PRO 01a

Name of Assessed Person: Registration:

| UNIT MEA339: Inspect, rep | air and | d maintain aircraft structures | | | | | | | |
|-----------------------------|---------|--|----------------|-----|----|-----|----------|-----|----|
| | | N. 6 | No. of Entries | 1 | L | 2 | <u>)</u> | 3 | 3 |
| | | | Tail / Job No. | | | | | | |
| | a. | Non-ferrous and ferrous alloys and composite (FRP) materials used in aircraft construction | LAME Sign. | | | | | | |
| | | in an craft construction | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | | No. of Entries | 1 | L | 2 | <u>)</u> | ; | 3 |
| | | | Tail / Job No. | | | | | | |
| | b. | Structural fastening and attachment hardware and/or devices | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| 1. | | | Simulated | Yes | No | Yes | No | Yes | No |
| Inspect aircraft structure. | | Seals and sealants | No. of Entries | 1 | L | 2 | <u>)</u> | 1 | 3 |
| | | | Tail / Job No. | | | | | | |
| | c. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | | No. of Entries | 1 | L | 2 | 2 | 3 | |
| | | | Tail / Job No. | | | | | | |
| | d. | Glass and moulded plastics | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |

- 1.1 Relevant maintenance documentation is used to identify specific inspection requirements.
- 1.2 Appropriate preparation and access to the aircraft structure is undertaken to allow for proper inspection in accordance with maintenance documentation.
- 1.3 Aircraft structure is visually or physically checked for signs of deformation defects or damage in accordance with maintenance documentation and approved 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).
- 1.4 Damage or defects are assessed against damage or wear limits specified by structural repair manual or other approved data to determine if repair or replacement is required.
- 1.5 Maintenance documentation is completed and processed in accordance with standard enterprise procedures.



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|-----------------------------|---------|---|----------------|-----|----|-----|----------|-----|----|
| | | | No. of Entries | | l | 2 | <u>)</u> | | 3 |
| | | | Tail / Job No. | | | | | | |
| | e. | Application of NDT techniques | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | | No. of Entries | 1 | 1 | 2 | 2 | 3 | 3 |
| | | | Tail / Job No. | | | | | | |
| | f. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| 1. Cont'd | | | Simulated | Yes | No | Yes | No | Yes | No |
| Inspect aircraft structure. | | | No. of Entries | | 1 | 2 | 2 | 3 | 3 |
| | | | Tail / Job No. | | | | | | |
| | g. | Inspections applicable to each of safe life, damage tolerant and fail safe structure relevant to enterprise | LAME Sign. | | | | | | |
| | | sale structure relevant to enterprise | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | | No. of Entries | | 1 | 2 | <u>)</u> | 3 | 3 |
| | | h. Ageing aircraft inspection programs | Tail / Job No. | | | | | | |
| | h. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |

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|---|-------|--|----------------|--------|--------|-------|----|--|--|--|
| | | i. Recognition of impact damage, fatigue cracking and corrosion j. Delamination of composites and bonded structures | No. of Entries | 1 | 2 | 3 | | | | |
| | | | Tail / Job No. | | | | | | | |
| | i. | | LAME Sign. | | | | | | | |
| | | | Date | | | | | | | |
| 1. Cont'd | | | Simulated | Yes No | Yes No | Yes N | Ю | | | |
| Inspect aircraft structure. | | | No. of Entries | 1 | 2 | 3 | | | | |
| | | | Tail / Job No. | | | | | | | |
| | j. D€ | | LAME Sign. | | | | | | | |
| | | | Date | | | | | | | |
| | | | Simulated | Yes No | Yes No | Yes N | lo | | | |

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|------------------------------|---------|---|----------------|-----|----------|-----|----------|----------|----|
| | | Remove corrosion by chemical and mechanical methods | No. of Entries | 1 | L | 2 | <u>)</u> | : | 3 |
| | | | Tail / Job No. | | | | | | |
| | k. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | Restore protective coatings | No. of Entries | 1 | L | 2 | 2 | : | 3 |
| | | | Tail / Job No. | | | | | | |
| | I. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| 2. | | | Simulated | Yes | No | Yes | No | Yes | No |
| Prepare to undertake repair. | m. | Apply sealants and joining compounds | No. of Entries | 1 | <u>L</u> | 2 | 2 | : | 3 |
| | | | Tail / Job No. | | | | | | |
| | | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | | No. of Entries | 1 | L | 2 | <u>)</u> | : | 3 |
| | | | Tail / Job No. | | | | | | |
| | n. | n. Freehand precision hole generation | LAME Sign. | | | | | <u> </u> | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |

- 2.1 Extent of damage is correctly assessed to assist in determining repair procedure.
- 2.2 Appropriate repair scheme is identified in accordance with structural repair manual and/or approved data.
- 2.3 Specialist advice is obtained in establishing an approved repair scheme where a standard repair scheme cannot be identified or damage is out of limits.
- 2.4 All materials and equipment required are organised.



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|------------------------------|--------|--|----------------|-----|----|-----|----------|-----|----|
| | | Remove and install structural hardware and fastening devices | No. of Entries | 1 | L | 2 | <u>)</u> | *** | 3 |
| | | | Tail / Job No. | | | | | | |
| | 0. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | p. Remove and replace bushes, bearings and bearing surfaces | No. of Entries | 1 | L | 2 | 2 | *** | 3 |
| | | | Tail / Job No. | | | | | | |
| | p. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| 2. Cont'd | | | Simulated | Yes | No | Yes | No | Yes | No |
| Prepare to undertake repair. | | Metal scab patch, flush, splice, lap and formed section repair | No. of Entries | 1 | L | 2 | <u>)</u> | : | 3 |
| | | | Tail / Job No. | | | | | | |
| | q. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | | No. of Entries | 1 | L | 2 | 2 | | 3 |
| | | | Tail / Job No. | | | | | | |
| | r. | Composite external patch, scarf, stepped and bolted repairs | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |

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- 2.2 Appropriate repair scheme is identified in accordance with structural repair manual and/or approved data.
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|---------------------------------|---------|---|----------------|-------|-----|-----|-----|----------|----|
| | | | No. of Entries | 1 | | 2 | | Ξ | 3 |
| | | | Tail / Job No. | | | | | | |
| | k. | Remove corrosion by chemical and mechanical methods | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes I | No | Yes | No | Yes | No |
| | | Restore protective coatings | No. of Entries | 1 | | 2 | | 3 | 3 |
| | | | Tail / Job No. | | | | | <u> </u> | |
| | l. | | LAME Sign. | | | | | <u> </u> | |
| 2 | | | Date | | | | | <u></u> | |
| 3. Repair and Maintain Aircraft | | | Simulated | Yes I | No | Yes | No | Yes | No |
| Structures. | | Apply sealants and joining compounds | No. of Entries | 1 | | 2 | | 3 | 3 |
| oti actares. | | | Tail / Job No. | | | | | | |
| | m. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes I | No | Yes | No | Yes | No |
| | | | No. of Entries | 1 | | 2 | | 3 | 3 |
| | | | Tail / Job No. | | | | | <u> </u> | |
| | n. | Freehand precision hole generation | LAME Sign. | | | | | <u></u> | |
| | | | Date | | | | | | |
| | | Simulated | Yes I | No | Yes | No | Yes | No | |

- 3.1 Structural repairs are performed in accordance with approved repair scheme ensuring that aircraft standard practices are used and process requirements are carried out while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
- 3.2 Preventative maintenance techniques are employed to preserve the integrity of aircraft structure.
- 3.3 Work area is cleaned of all waste material or contaminants.
- 3.4 Required maintenance documentation is completed and processed in accordance with standard enterprise procedures.



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|--|--------|--|----------------|-----|----|-----|----------|----------|----|
| | | Remove and install structural hardware and fastening devices | No. of Entries | 1 | L | 2 | <u>)</u> | : | 3 |
| | | | Tail / Job No. | | | | | | |
| | 0. | | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | Remove and replace bushes, bearings and bearing surfaces | No. of Entries | 1 | L | 2 | <u>)</u> | : | 3 |
| | | | Tail / Job No. | | | | | | |
| | p. | | LAME Sign. | | | | | | |
| 2 0 141 | | | Date | | | | | | |
| 3. Cont'd | | | Simulated | Yes | No | Yes | No | Yes | No |
| Repair and Maintain Aircraft Structures. | | Metal scab patch, flush, splice, lap and formed section repair | No. of Entries | 1 | L | 2 | <u>)</u> | : | 3 |
| Structures. | | | Tail / Job No. | | | | | | |
| | q. | | LAME Sign. | | | | | | |
| | | | Date | | | | | <u> </u> | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |
| | | | No. of Entries | 1 | L | 2 | 2 | 3 | |
| | | | Tail / Job No. | | | | | | |
| | r. | Composite external patch, scarf, stepped and bolted repairs | LAME Sign. | | | | | | |
| | | | Date | | | | | | |
| | | | Simulated | Yes | No | Yes | No | Yes | No |

Performance Criteria:

- 3.1 Structural repairs are performed in accordance with approved repair scheme ensuring that aircraft standard practices are used and process requirements are carried out while observing all relevant WHS requirements, including the use of MSDS and items of PPE.
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R: 3



UNIT MFA339:

Signed:

Trade Unit Certification Sheets

AA TT PRO 01a

Date/ MTO Stamp

Name of Assessed Person: Registration:

Inspect, repair and maintain aircraft structures

Certification of Underpinning Knowledge and Skills to Perform Inspect, repair and maintain aircraft structures

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 across the variables in each group listed in the assessment conditions a) to j) 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).

| | | • | | | | | | | |
|---|----------|---|--|--|--|--|--|--|--|
| 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). | | | | | | | | | |
| | | | | | | | | | |
| 304 OR 317 | | | | | | | | | |
| 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. | | | | | | | | | |
| decordance with the competency onit. | <u> </u> | | | | | | | | |
| | | | | | | | | | |
| Certification of Unit Completion | | | | | | | | | |
| 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. | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Assessor No.

MTO:

Date: