



Fire & Rescue Services ITO

Assessor Assessment Guide Unit Standard 20391

Demonstrate knowledge of aircraft hazards and hazardous systems for fire and rescue operations (Level 4, Credit 4, Version 1)

In order to achieve competency in this unit standard a candidate must display an understanding of the knowledge components by completing an oral or written assessment and practically demonstrate the performances required to demonstrate knowledge of aircraft hazards and hazardous system for fire and rescue operations.

This assessment may take place at a real fire where defensive control is employed or at a simulated practical event.

The assessor may elect to question candidates during completion of the practical assessment to ensure theoretical knowledge can be applied during practice. This technique also provides the assessor with reinforcement that knowledge has been retained.

Where a candidate is being assessed on the basis of a RCC process evidence must be produced that indicates a candidate has successfully directed operations at a defensively controlled fire at both structure and vehicle fires in a safe manner without causing avoidable environmental or equipment damage.

Assessors may use this guide to record evidence of a candidates overall performance but should be aware that this may not, on its own be an adequate record for moderation purposes without appropriate notes or appendices. Notes should include a summary of the process used and a statement about the quality of the candidate's performance.

ASSESSORS SHOULD ALWAYS REVIEW THE REQUIREMENTS CONTAINED IN THE UNIT STANDARD DOCUMENT PRIOR TO CONDUCTING ASSESSMENTS

For this unit the following resources are available from FRSITO to assist Learners, Instructors and Assessors:

- Assessor Assessment Guide
- Learner Assessment Guide

Assessors General Notes:

Compliance with the fire and rescue service provider's Health and Safety policy and procedures is mandatory.

To gain credit for this unit standard knowledge must be demonstrated for both fixed and rotary wing aircraft.

| | | | |
|--------------------|-------|--------------|-------|
| Assessor Name | _____ | Assessor No. | _____ |
| Candidate Name | _____ | NZQA No. | _____ |
| Date of Assessment | _____ | Final Result | _____ |

Level Descriptor

| Level | Process | Employing | Responsibility |
|-------|---|---|---|
| 4 | Carrying out processes that: <ul style="list-style-type: none"> Require a wide range of scholastic skills Offer a considerable choice of procedures Are employed in a variety of familiar and unfamiliar contexts | Employing: <ul style="list-style-type: none"> A broad knowledge base incorporating some theoretical concepts Analytical interpretation of information Informed judgement A range of sometimes innovative responses to concrete but often unfamiliar problems | Applied: <ul style="list-style-type: none"> In directed activity Under broad guidance and evaluation With complete responsibility for the quantity and quality of output With possible responsibility for the quantity and quality of the output of others |

| | Information or actions that may provide support for competency | |
|---------|--|-----------------|
| General | Has the candidate: <ul style="list-style-type: none"> <input type="checkbox"/> Satisfactorily completed a pre course self test? <input type="checkbox"/> Satisfactorily completed an oral or written on course or post knowledge assessment? <input type="checkbox"/> Satisfactorily completed simulation exercises? <input type="checkbox"/> Attend a course covering the Unit Standard subject matter? <input type="checkbox"/> Provided proof of experience through records? <input type="checkbox"/> Practically demonstrated in a practical scenario? <input type="checkbox"/> Other (please list)? <hr/> <hr/> | Assessor Notes: |

| Element and PC | Evidence Typical answer/product/performance expected from the learner/candidate(s) | Judgement Statement (A statement that defines the standard to be achieved) | Result C/NYC |
|----------------|---|---|-----------------|
| 1 | Demonstrate knowledge of hazards while working near and around aircraft. | | |
| 1.1 | The candidate ensures safe methods of approaching aircraft on foot and by vehicle are described in accordance with the requirements of the fire and rescue service provider. Did the candidate: <ul style="list-style-type: none"> <input type="checkbox"/> Describe safe methods of approaching an aircraft? Assessor notes: | Safe methods of approaching aircraft on foot and by vehicle are described in accordance with the requirements of the fire and rescue service provider. | |

| Element and PC | Evidence Typical answer/product/performance expected from the learner/candidate(s) | Judgement Statement (A statement that defines the standard to be achieved) | Result C/NYC |
|----------------|--|---|-----------------|
| 1.2 | <p>The candidate describes methods of avoiding hazards associated with particular parts of aircraft in accordance with the requirements of the fire and rescue service provider.</p> <p>Range: must assess five of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> engines <input type="checkbox"/> armaments <input type="checkbox"/> ammunition <input type="checkbox"/> ejector seats <input type="checkbox"/> propellers and rotors <input type="checkbox"/> wheel assemblies <input type="checkbox"/> auxiliary power units <input type="checkbox"/> construction materials <p>Did the candidate:</p> <p><input type="checkbox"/> Satisfy the requirements of the range?</p> <p>Assessor notes:</p> | <p>Methods of avoiding hazards associated with particular parts of aircraft are described in accordance with the requirements of the fire and rescue service provider.</p> | |

| Element and PC | Evidence Typical answer/product/performance expected from the learner/candidate(s) | Judgement Statement (A statement that defines the standard to be achieved) | Result C/NYC |
|----------------|--|--|-----------------|
| 2 | <p>Demonstrate knowledge of aircraft's hazardous systems.</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Hydraulic <input type="checkbox"/> Oxygen and fuel systems | | |
| 2.1 | <p>The candidate describes the identification of aircraft systems by international coding in accordance with the requirements of the fire and rescue service provider.</p> <p>Did the candidate:</p> <p><input type="checkbox"/> Describe aircraft ID coding systems?</p> <p>Assessor notes:</p> | <p>The identification of aircraft systems by international coding is described in accordance with the requirements of the fire and rescue service provider.</p> | |
| 2.2 | <p>The candidate describes the hazards posed by each aircraft system and the appropriate extinguishing agent identified in accordance with aircraft rescue manuals.</p> <p>Did the candidate:</p> <p><input type="checkbox"/> Describe hazards of each system and extinguishing agents?</p> <p>Assessor notes:</p> | <p>The hazards posed by each aircraft system are described and the appropriate extinguishing agent identified in accordance with aircraft rescue manuals.</p> | |