



Fire & Rescue Services ITO

## Assessor Assessment Guide Unit Standard 20389 Respond to and fight external aircraft fire (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 respond to and fight external aircraft fire.

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:

Candidates must hold prerequisites:

Unit 3272, *Wear and operate breathing apparatus in general emergencies;*

Unit 3324, *Drive rescue fire vehicles in airport environments;*

Unit 3331, *Demonstrate knowledge of aircraft for fire and rescue operations;*

Unit 20391, *Demonstrate knowledge of aircraft and the hazards for fire and rescue operations,*  
or demonstrate equivalent knowledge and skills.

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

**Level Descriptor**

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

	Information or actions that may provide support for competency	
General	<b>Has the candidate:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Completed Unit Standards 3272, 3324, 3331, 20391?</li> <li><input type="checkbox"/> Satisfactorily completed a pre course self test?</li> <li><input type="checkbox"/> Completed all listed prerequisites?</li> <li><input type="checkbox"/> Satisfactorily completed an oral or written on course or post knowledge assessment?</li> <li><input type="checkbox"/> Satisfactorily completed simulation exercises?</li> <li><input type="checkbox"/> Attend a course covering the Unit Standard subject matter?</li> <li><input type="checkbox"/> Provided proof of experience through records?</li> <li><input type="checkbox"/> Practically demonstrated in a practical scenario?</li> <li><input type="checkbox"/> Other (please list)?</li> </ul> <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	<b>Respond to call out and position appliance.</b>		
1.1	The candidate's response to emergency activation is in accordance with aerodrome emergency plan and standard operating procedures.  <b>Did the candidate:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Respond in accordance with the aerodrome emergency plan?</li> <li><input type="checkbox"/> Respond in accordance with the SOP's?</li> <li><input type="checkbox"/> Other (please list)?</li> </ul> <b>Assessor notes:</b>	<b>Response to emergency activation is in accordance with aerodrome emergency plan and standard operating procedures.</b>	

<b>Element and PC</b>	<b>Evidence Typical answer/product/performance expected from the learner/candidate(s)</b>	<b>Judgement Statement (A statement that defines the standard to be achieved)</b>	<b>Result C/NYC</b>
1.2	<p>The candidate approaches the incident site in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> upwind</li> <li><input type="checkbox"/> uphill</li> <li><input type="checkbox"/> regard for the safety of walking survivors</li> <li><input type="checkbox"/> allowance for an escape route</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Approach from upwind?</li> <li><input type="checkbox"/> Approach from uphill?</li> <li><input type="checkbox"/> Take into consideration walking survivors?</li> <li><input type="checkbox"/> Allow for escape route?</li> <li><input type="checkbox"/> Other (please list)?</li> </ul> <p><b>Assessor notes:</b></p>	<p><b>Incident site is approached in accordance with the requirements of the fire and rescue service provider.</b></p>	
1.3	<p>The candidate analyses the aircraft fire, including position attitude (lay) and integrity of the airframe, prioritising and tactics explained in terms of type and scale in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> TCA</li> <li><input type="checkbox"/> PCA</li> <li><input type="checkbox"/> establishing rescue paths</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyse the fire situation?</li> <li><input type="checkbox"/> Identify the theoretical critical area (TCA)?</li> <li><input type="checkbox"/> Identify the practical critical area (PCA)?</li> <li><input type="checkbox"/> Establish rescue paths?</li> </ul> <p><b>Assessor notes:</b></p>	<p><b>Aircraft fire is analysed including position attitude (lay) and integrity of the airframe, prioritised and tactics explained in terms of type and scale in accordance with the requirements of the fire and rescue service provider.</b></p>	

<b>Element and PC</b>	<b>Evidence Typical answer/product/performance expected from the learner/candidate(s)</b>	<b>Judgement Statement (A statement that defines the standard to be achieved)</b>	<b>Result C/NYC</b>
1.4	<p>The candidate's tactical positioning of appliance is in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> to target the practical critical area</li> <li><input type="checkbox"/> within the range of the appliance's equipment</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Identify the dominant position?</li> </ul> <p><b>Assessor notes:</b></p>	<p><b>Tactical positioning of appliance is in accordance with the requirements of the fire and rescue service provider.</b></p>	

<b>Element and PC</b>	<b>Evidence Typical answer/product/performance expected from the learner/candidate(s)</b>	<b>Judgement Statement (A statement that defines the standard to be achieved)</b>	<b>Result C/NYC</b>
<b>2</b>	<b>Select strategy for fire suppression.</b>		
2.1	<p>The candidate's selected extinguishing agent suits the fire type and allows the fire to be controlled in accordance with fire and rescue service provider requirements.</p> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Select the correct extinguishing media for the incident type?</li> </ul> <p><b>Assessor notes:</b></p>	<p><b>Selected extinguishing agent suits the fire type and allows the fire to be controlled in accordance with fire and rescue service provider requirements.</b></p>	
2.2	<p>The candidate's selected means of application allows the fire to be controlled in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Successfully control the fire?</li> </ul> <p><b>Assessor notes:</b></p>	<p><b>Selected means of application allows the fire to be controlled in accordance with the requirements of the fire and rescue service provider.</b></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
<b>3</b>	<b>Fight aircraft fire.</b>		
3.1	<p>The candidate's extinguishing agent is applied in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Apply the extinguishing agent using the strategy selected in accordance with the provider requirements?</p> <p><b>Assessor notes:</b></p>	<p><b>Extinguishing agent is applied in accordance with the requirements of the fire and rescue service provider.</b></p>	
3.2	<p>The candidate ensures survivable conditions and/or exit paths are maintained in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Maintain survivable exit paths?</p> <p><b>Assessor notes:</b></p>	<p><b>Survivable conditions and/or exit paths are maintained in accordance with the requirements of the fire and rescue service provider.</b></p>	
3.3	<p>The candidate ensures re-ignition is prevented by maintenance of a foam blanket, isolation of ignition sources and cooling hot metals in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Isolate ignition sources?  <input type="checkbox"/> Maintain foam blanket?  <input type="checkbox"/> Cool airframe and other hot metals?</p> <p><b>Assessor notes:</b></p>	<p><b>Re-ignition is prevented by maintenance of a foam blanket, isolation of ignition sources and cooling hot metals in accordance with the requirements of the fire and rescue service provider.</b></p>	

<b>Element and PC</b>	<b>Evidence Typical answer/product/performance expected from the learner/candidate(s)</b>	<b>Judgement Statement (A statement that defines the standard to be achieved)</b>	<b>Result C/NYC</b>
3.4	<p>The candidate Identifies potentially hazardous conditions and the mitigation of those hazards are in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> fuel leaks</li> <li><input type="checkbox"/> presence of hazardous cargo</li> <li><input type="checkbox"/> instability of airframe</li> <li><input type="checkbox"/> aircraft material debris</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Identify hazards?</li> <li><input type="checkbox"/> Mitigation of hazards identified?</li> </ul> <p><b>Assessor notes:</b></p>	<p><b>Identification of potentially hazardous conditions and the mitigation of those hazards are in accordance with the requirements of the fire and rescue service provider.</b></p>	
3.5	<p>The candidate ensures supplies of extinguishing agent are maintained to ensure site stability in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Ensure adequate and continuous supply of extinguishing agent to maintain site stability?</li> </ul> <p><b>Assessor notes:</b></p>	<p><b>Supplies of extinguishing agent are maintained to ensure site stability in accordance with the requirements of the fire and rescue service provider.</b></p>	