



**Learner Assessment Guide**  
**Unit Standard 20391**  
**Demonstrate knowledge of aircraft hazards and hazardous systems**  
**for fire and rescue operations**  
**(Level 4, Credit 4, Version 1)**

**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>

**Descriptors:** Credit 4 - will require approximately 40 - 48 hours of learning, practice or experience and assessment for a person with no previous knowledge or experience.

Version 1 - This document has been prepared based on version 1 of the Unit Standard.

**Elements:**

1. Demonstrate knowledge of hazards while working near and around aircraft.
2. Demonstrate knowledge of aircraft's hazardous systems.

**Prerequisites:** None

**Assessment Conditions:** Assessment against this unit standard may take place under real or practical simulated conditions.

**Special Notes:** Compliance with the providers 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.

## **Assessment Brief Instructions:**

### **Assessing Element 1: Demonstrate knowledge of hazards while working near and around aircraft**

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.

The candidate ensures methods of avoiding hazards associated with particular parts of aircraft are described in accordance with the requirements of the fire and rescue service provider.

This includes **five** of the following:

- engines
- armaments
- ammunition
- ejector seats
- propellers and rotors
- wheel assemblies
- auxiliary power units
- construction materials

### **Assessing Element 2: Demonstrate knowledge of aircraft's hazardous systems**

This includes:

- hydraulic
- oxygen
- fuel systems

The candidate ensures the identification of aircraft systems by international coding is described in accordance with the requirements of the fire and rescue service provider.

The candidate ensures the hazards posed by each aircraft system are described and the appropriate extinguishing agent identified in accordance with aircraft rescue manuals.