



Fire & Rescue Services ITO

## Assessor Assessment Guide Unit Standard 3292 Lead heavy machinery operations for use at vegetation fires (Level 4, Credit 3, Version 3)

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 plan and lead heavy machinery fire fighting operations to vegetation fires.

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:

Recommended: Unit 14564, *Demonstrate knowledge of the fire environment on vegetation fire behaviour*; and Unit 3285, *Demonstrate knowledge of protection of personal safety at vegetation fires*; or demonstrate equivalent knowledge and skills.

People seeking credit for this unit standard must have prior competence in supervisory management skills.

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

**Level Descriptor**

| <b>Level</b> | <b>Process</b>  | <b>Employing</b>  | <b>Responsibility</b>   |
|--------------|---|---|---|
| <b>4</b>     | <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> |

|         | <b>Information or actions that may provide support for competency</b>  |                        |
|---------|--|------------------------|
| General | <b>Has the candidate:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Satisfactorily completed a pre course self test?</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/> | <b>Assessor Notes:</b> |

| Element and PC | Evidence<br>Typical answer/product/performance expected from the learner/candidate(s)  | Judgement Statement<br>(A statement that defines the standard to be achieved)  | Result<br>C/NYC |
|----------------|--|--|-----------------|
| 1              | <b>Demonstrate knowledge of heavy machinery used in vegetation fire fighting.</b>  |  |                 |
| 1.1            | <p>The candidate must ensure heavy machinery that can be used for rural fire fighting is identified and its uses and production rates described in accordance with manufactures specifications.</p> <p><b>Range:</b> must include three of the following:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> bulldozer</li> <li><input type="checkbox"/> grader</li> <li><input type="checkbox"/> excavator</li> <li><input type="checkbox"/> skidder</li> <li><input type="checkbox"/> loader</li> <li><input type="checkbox"/> cultivator</li> <li><input type="checkbox"/> agricultural tractor</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Identify machinery as required?</li> </ul> <p><b>Assessor notes:</b></p> | <p><b>Heavy machinery that can be used for rural fire fighting is identified and its uses and production rates described in accordance with manufactures specifications.</b></p> |                 |
| 1.2            | <p>The candidate ensured logistic requirements for heavy machinery are explained 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"/> lead times</li> <li><input type="checkbox"/> personnel support</li> <li><input type="checkbox"/> fuel</li> <li><input type="checkbox"/> transport</li> <li><input type="checkbox"/> lighting</li> <li><input type="checkbox"/> maintenance</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Explain logistical requirements as required?</li> </ul> <p><b>Assessor notes:</b></p>  | <p><b>Logistic requirements for heavy machinery are explained in accordance with the requirements of the fire and rescue service provider.</b></p>                               |                 |

| Element and PC | Evidence<br>Typical answer/product/performance expected from the learner/candidate(s)   | Judgement Statement<br>(A statement that defines the standard to be achieved)                                     | Result<br>C/NYC |
|----------------|---|---|-----------------|
| 2              | <b>Plan heavy machinery fire fighting operations.</b>   |   |                 |
| 2.1            | <p>The candidate ensures the location of fire lines or control lines meets objectives of the incident action plan.</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> resources</li> <li><input type="checkbox"/> tactics</li> <li><input type="checkbox"/> fuels</li> <li><input type="checkbox"/> topography</li> <li><input type="checkbox"/> values at risk</li> <li><input type="checkbox"/> environmental considerations</li> <li><input type="checkbox"/> operators' skills</li> <li><input type="checkbox"/> fire behaviour</li> <li><input type="checkbox"/> current and predicted fire behaviour</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Locate control lines as required?</li> </ul> <p><b>Assessor notes:</b></p> | <p><b>Location of fire lines or control lines meets objectives of the incident action plan.</b></p>               |                 |
| 2.2            | <p>The candidate ensures briefing of machine operators and support personnel is in accordance with the incident action plan.</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> tasks assigned</li> <li><input type="checkbox"/> limiting factors</li> <li><input type="checkbox"/> potential hazards</li> <li><input type="checkbox"/> safety considerations</li> <li><input type="checkbox"/> environmental considerations</li> <li><input type="checkbox"/> historic and cultural sites</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Brief personnel as required?</li> </ul> <p><b>Assessor notes:</b></p>  | <p><b>Briefing of machine operators and support personnel is in accordance with the incident action plan.</b></p> |                 |

| Element and PC | Evidence<br>Typical answer/product/performance expected from the learner/candidate(s)  | Judgement Statement<br>(A statement that defines the standard to be achieved)   | Result<br>C/NYC |
|----------------|--|---|-----------------|
| 2.3            | <p>The candidate ensures post fire rehabilitation is planned in conjunction with fire operations management personnel in accordance with the requirements of the fire and rescue service provider.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Plan rehabilitation as required?</p> <p><b>Assessor notes:</b></p> | <p><b>Post fire rehabilitation is planned in conjunction with fire operations management personnel in accordance with the requirements of the fire and rescue service provider.</b></p> |                 |

| Element and PC | Evidence<br>Typical answer/product/performance expected from the learner/candidate(s)   | Judgement Statement<br>(A statement that defines the standard to be achieved)                        | Result<br>C/NYC |
|----------------|---|--|-----------------|
| 3              | <b>Lead heavy machinery operations to vegetation fires.</b>   |  |                 |
| 3.1            | <p>The candidate ensures tasks are carried out in accordance with the requirements of the incident action plan.</p> <p><b>Range:</b></p> <p><input type="checkbox"/> expertise of personnel<br/><input type="checkbox"/> machinery employed</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Carry out tasks as required?</p> <p><b>Assessor notes:</b></p> | <p><b>Tasks are carried out in accordance with the requirements of the incident action plan.</b></p> |                 |

| <b>Element and PC</b> | <b>Evidence<br/>Typical answer/product/performance expected from the learner/candidate(s)</b>  | <b>Judgement Statement<br/>(A statement that defines the standard to be achieved)</b>  | <b>Result<br/>C/NYC</b> |
|-----------------------|--|--|-------------------------|
| 3.2                   | <p>The candidate ensures recording of resources used and services provided are communicated and recorded 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"/> fire behaviour</li> <li><input type="checkbox"/> machinery status</li> <li><input type="checkbox"/> changes in incident action plan</li> <li><input type="checkbox"/> environmental considerations</li> </ul> <p><b>Did the candidate:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Communicate records of resources as required?</li> </ul> <p><b>Assessor notes:</b></p> | <p><b>Recording of resources used and services provided are communicated and recorded in accordance with the requirements of the fire and rescue service provider.</b></p> |                         |