



## Assessor Assessment Guide Unit Standard 16951 Apply ventilation techniques to assist fire and rescue operations (Level 5, Credit 6, Version 2)

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 knowledge of effective use of ventilation and the relationships between the construction types; and apply and supervise ventilation techniques used in fires and other emergencies of a confined nature

This assessment may take place at a real 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:

Prerequisite: Candidate must hold Unit Standard 20394, *Apply basic ventilation techniques to assist fire and rescue operations*, before this Unit can be registered on their NZQA Record of Learning

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

**Level Descriptor**

Level	Process	Employing	Responsibility
5	<b>Carrying out processes that:</b> <ul style="list-style-type: none"> <li>Require a wide range of specialised technical or scholastic skills</li> <li>Involve a wide choice of standard and non-standard procedures</li> <li>Are employed in a variety of routine and non-routine contexts</li> </ul>	<b>Employing:</b> <ul style="list-style-type: none"> <li>A broad knowledge base with substantial depth in some areas</li> <li>Analytical interpretation of a wide range of data</li> <li>The determination of appropriate methods and procedures in response to a range of concrete problems with some theoretical elements</li> </ul>	<b>Applied:</b> <ul style="list-style-type: none"> <li>In self-directed and sometimes directed activity</li> <li>with broad general guidelines or functions</li> <li>With full responsibility for the nature, quantity and quality of outcomes</li> <li>With possible responsibility for the achievement of group outcome</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"/> Gained Unit 20394?</li> <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/>	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>Demonstrate knowledge of effective use of ventilation and the relationships between the construction types.</b>		
1.1	Candidate must explain the benefits associated with ventilation in accordance with the SOPs.  <b>Did the candidate:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Explain benefit of ventilation in line with SOPs?</li> </ul> <b>Assessor notes:</b>	<b>Explain the hazards associated when applying ventilation in accordance with the SOPs.</b>	

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>Candidate must explain the hazards associated when applying ventilation in accordance with the SOPs.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Explain hazards of ventilation in line with SOPs?</p> <p><b>Assessor notes:</b></p>	<p><b>Explain the hazards associated when applying ventilation in accordance with the SOPs.</b></p>	
1.3	<p>Candidate must explain tactical options with forced ventilation in accordance with the organisational procedures.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Explain tactical options relating to ventilation?</p> <p><b>Assessor notes:</b></p>	<p><b>Explain tactical options with forced ventilation in accordance with the organisational procedures.</b></p>	
1.4	<p>Candidate must explain methods of ventilation applied for reducing smoke, fumes, and heat from compartments and/or structures in accordance with the organisational procedures.</p> <p><b>Range:</b></p> <p><input type="checkbox"/> single storey dwellings</p> <p><input type="checkbox"/> multi-storey buildings</p> <p><input type="checkbox"/> large open span complexes</p> <p><input type="checkbox"/> basements</p> <p><input type="checkbox"/> tunnels</p> <p><input type="checkbox"/> pits</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Satisfy the requirements of the range?</p> <p><b>Assessor notes:</b></p>	<p><b>Explain methods of ventilation applied for reducing smoke, fumes, and heat from compartments and/or structures in accordance with the organisational procedures.</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
1.5	<p>Candidate must explain manual ventilation techniques that may be applied to various construction types in accordance with the organisational procedures.</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> single storey dwellings</li> <li><input type="checkbox"/> multi-storey buildings</li> <li><input type="checkbox"/> large open span complexes</li> <li><input type="checkbox"/> basements</li> <li><input type="checkbox"/> tunnels</li> <li><input type="checkbox"/> pits</li> </ul> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Satisfy the requirements of the range?</p> <p><b>Assessor notes:</b></p>	<p><b>Explain manual ventilation techniques that may be applied to various construction types in accordance with the organisational procedures.</b></p>	
1.6	<p>Candidate must explain in-built systems and components that provide protection to compartments and exit paths in accordance with the SOPs.</p> <p><b>Range:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> smoke stop systems</li> <li><input type="checkbox"/> pressurisation systems</li> <li><input type="checkbox"/> ventilation systems</li> <li><input type="checkbox"/> fire damper systems</li> </ul> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Satisfy the requirements of the range?</p> <p><b>Assessor notes:</b></p>	<p><b>Explain in-built systems and components that provide protection to compartments and exit paths in accordance with the SOPs.</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
2	<b>Apply and supervise ventilation techniques used in fires and other emergencies of a confined nature.</b>		
2.1	<p>Candidate must select ventilation methods to assist fire and rescue operations in accordance with the organisational procedures.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Select ventilation methods in line with SOPs?</p> <p><b>Assessor notes:</b></p>	<b>Select ventilation methods to assist fire and rescue operations in accordance with the organisational procedures.</b>	
2.2	<p>Candidate must ventilate structures in accordance with the organisational procedures.</p> <p><b>Range:</b> minimum of three from the following -</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> single story dwellings</li> <li><input type="checkbox"/> multi-story buildings</li> <li><input type="checkbox"/> large open span complexes</li> <li><input type="checkbox"/> basements</li> <li><input type="checkbox"/> tunnels</li> <li><input type="checkbox"/> pits</li> </ul> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Satisfy the requirements of the range?</p> <p><b>Assessor notes:</b></p>	<b>Ventilate structures in accordance with the organisational procedures.</b>	
2.3	<p>Candidate must supervise the performance and safety of ventilation crews in accordance with the organisational procedures.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Supervise performance and safety of crews?</p> <p><b>Assessor notes:</b></p>	<b>Supervise the performance and safety of ventilation crews in accordance with the organisational procedures.</b>	

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
2.4	<p>Candidate must supervise the ongoing conditions involving the development of smoke, fumes, and heat and their effect on ventilation operations in accordance with the SOPs.</p> <p><b>Did the candidate:</b></p> <p><input type="checkbox"/> Supervise on-going conditions in line with SOPs?</p> <p><b>Assessor notes:</b></p>	<p><b>Supervise the ongoing conditions involving the development of smoke, fumes, and heat and their effect on ventilation operations in accordance with the SOPs.</b></p>	