



Fire & Rescue Services ITO

Assessor Assessment Guide Unit Standard 20395 Wear and operate breathing apparatus in specialist emergencies (Level 4, Credit 6, Version 1)

In order to achieve competency in this unit standard a candidate must demonstrate knowledge of the human respiratory system, and the procedures to be followed when wearing BA; perform breathing apparatus control procedures in an emergency operation; wear BA in emergency operation situations; manage BA for safe use and survivability in fire and rescue operations; and shut down and re-commission BA and specialist equipment.

This assessment may take place at a real incident where breathing apparatus is being worn, 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 had extensive experience wearing BA in a range of conditions, including working with guidelines and hazardous substance PPE, has performed BA control functions, has managed the use of BA in all conditions encountered by NZ Fire Service staff.

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:

- Candidate must have successfully completed an approved NZ Fire Service or NZ Defence Force breathing apparatus training course before undertaking assessment against this unit standard.
- Candidate must hold Unit Standard 3272, *Wear and operate breathing apparatus in general emergencies* before this unit standard Candidate will be registered on their NZQA Record of Learning.

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 Unit 3272, <i>Wear and operate breathing apparatus in general emergencies</i>, or demonstrate equivalent knowledge or skills. <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"/> Successfully completed an approved course <input type="checkbox"/> 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 the human respiratory system, and the procedures to be followed when wearing BA.		
1.1	<p>Candidate must describe and explain the physiology of breathing and associated conditions of the human body in accordance with the SOPs.</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> respiration - the respiratory process. <input type="checkbox"/> asphyxiation. <input type="checkbox"/> stress <input type="checkbox"/> stroke <input type="checkbox"/> exhaustion <p>Did the Candidate</p> <ul style="list-style-type: none"> <input type="checkbox"/> Satisfy the requirements of the range? <p>Assessor notes:</p>	<p>Physiology of respiration is explained.</p> <p>The body's requirement for oxygen is explained.</p> <p>Signs & symptoms of asphyxiation are described.</p> <p>Signs and symptoms of heat illnesses, stroke and exhaustion - are described.</p>	
1.2	<p>Candidate must list and describe the responsibilities and duties of:</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> an Entry Control Officer (ECO – Stage 1) <input type="checkbox"/> a BA Control Officer (BACO – Stage 2) <p>Consider the following:</p> <ul style="list-style-type: none"> • Maximum number of teams to be managed by ECO • Minimum number of wearers per team • The thresholds for the establishment of stage 2 BA Control • The thresholds for a dedicated ECO • The content of an Entry Control Board • The content of a BA Control Board • The requirement for relief teams • The requirement for an rescue teams • The function and management of rapid deployment • Estimating working duration • Evacuation procedures • Considerations when siting an Entry Control Point • Resource and recommissioning requirements <p>Did the candidate:</p> <ul style="list-style-type: none"> <input type="checkbox"/> List and describe the responsibilities and duties of an ECO? <input type="checkbox"/> List and describe the responsibilities of BACO? <p>Assessor notes:</p>	<p>The responsibilities of an Entry Control Officer and a BA Control Officer are listed and described.</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
1.3	<p>Candidate must describe the hazards associated with wearing Breathing Apparatus.</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> working in extreme cold <input type="checkbox"/> working under water <input type="checkbox"/> set failure <p>Did the candidate:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Describe the hazards associated with wearing Breathing Apparatus? <p>Assessor notes:</p>	<p>Hazards associated with wearing breathing apparatus are described.</p>	
1.4	<p>Candidate must explain the procedures to be adopted when wearing breathing apparatus in accordance with SOPs.</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> guide lines <input type="checkbox"/> testing <input type="checkbox"/> safety <input type="checkbox"/> set failure <input type="checkbox"/> search <input type="checkbox"/> emergency evacuation <p>Did the candidate:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Explain the procedures to be adopted when wearing breathing apparatus? <p>Assessor notes:</p>	<p>Standard procedures associated with the wearing of breathing apparatus are explained.</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 type and frequency of standard tests conducted on breathing apparatus and related specialist equipment. (Refer special note 5 of the unit standard).</p> <p>Range: <input type="checkbox"/> type <input type="checkbox"/> frequency</p> <p>Did the candidate:</p> <p><input type="checkbox"/> Explain the standard tests conducted on breathing apparatus and related specialist equipment?</p> <p>Assessor notes:</p>	Type and frequency of standard tests is explained.	

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2	Perform breathing apparatus control procedures in an emergency situation.		
2.1	<p>Candidate must establish and manage a rapid deployment board (where supplied) in accordance with SOP's.</p> <p>Did the candidate:</p> <p><input type="checkbox"/> Manage rapid deployment procedures in accordance with SOP's?</p> <p>Assessor notes:</p>	Rapid deployment board is managed in accordance with SOP's.	

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
2.2	<p>Candidate must manage Stage 1 entry control (ECO) in accordance with SOP's.</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> establishing the entry control board <input type="checkbox"/> tallies <input type="checkbox"/> relief crews <input type="checkbox"/> rescue teams <input type="checkbox"/> emergency procedures <input type="checkbox"/> communications <input type="checkbox"/> resources <input type="checkbox"/> main line use <input type="checkbox"/> branch line use <p>Did the candidate:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Manage Stage 1 entry control in accordance with SOP's? <p>Assessor notes:</p>	<p>Functions of Stage 1 entry control are carried out in accordance with SOP's.</p>	
2.3	<p>Candidate must manage Stage 2 BA control (BACO) in accordance with SOP's. This must include:</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> relief crews, <input type="checkbox"/> rescue teams <input type="checkbox"/> emergency procedures <input type="checkbox"/> communications <input type="checkbox"/> resource requirements <p>Consider the following:</p> <ul style="list-style-type: none"> • entry control board established • tallies • supply and deployment of relief teams • ensuring availability of rescue teams and deploying these where required • carrying out emergency procedures where required • establishing communications links with the command system and all entry control points • identifying and supplying resources to ensure continuance of BA wearing, including sets, recharged cylinders, drinking water etc. • mainline use • branch line use <p>Did the candidate:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Manage Stage 2 BA control in accordance with SOP's? <p>Assessor notes:</p>	<p>The functions of Stage 2 BA control are carried out in accordance with SOP's.</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
3	Wear BA in emergency operation situations.		
3.1	<p>Candidate must select and don appropriate personal protective clothing for fire fighting situations.</p> <p>Range:</p> <p><input type="checkbox"/> hot <input type="checkbox"/> cold</p> <p>Did the candidate:</p> <p><input type="checkbox"/> Select and don appropriate personal protective clothing for fire fighting situations?</p> <p>Assessor notes:</p>	<p>Protective clothing is selected and worn in accordance with SOP's for both hot and cold situations.</p>	
3.2	<p>Candidate must select and wear appropriate PPE for a hazardous substance incident.</p> <p>Range:</p> <p><input type="checkbox"/> splash suit <input type="checkbox"/> fully encapsulated suits air lines (where supplied)</p> <p>Did the candidate:</p> <p><input type="checkbox"/> Select and correctly wear appropriate PPE for a hazardous substance incident?</p> <p>Assessor notes:</p>	<p>Level 3 splash suits worn with BA.</p> <p>Level 4 encapsulating suit worn with BA or airline.</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
3.3	<p>Candidate must establish and follow a BA main guideline. This may include departure from the main guideline by establishing a branch line.</p> <p>Did the candidate:</p> <p><input type="checkbox"/> Establish a BA main guideline and use this in accordance with SOP's?</p> <p>Assessor notes:</p>	<p>BA main guideline is established and used in accordance with SOPs.</p>	
3.4	<p>Candidate must conduct search procedures in accordance with SOP's.</p> <p>Consider the following:</p> <ul style="list-style-type: none"> • planning an area to be searched with ECO • adopting correct search techniques • establishing and maintaining good communication with their partner[s] <p>Did the candidate:</p> <p><input type="checkbox"/> Conduct search procedures in accordance with SOP's?</p> <p>Assessor notes:</p>	<p>Correct search procedures are carried out.</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
4	Manage BA for safe use and survivability in emergency fire and rescue operations		
4.1	<p>Candidate must explain their considerations relating to the environment in which the BA wearing is being conducted. Must demonstrate this during all wearings.</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> incident development <ul style="list-style-type: none"> o Fire development and travel o Heat layers o Smoke and Steam o Flashover or backdraught o Spill areas of hazardous substances o Sensitivity of hazardous substances <input type="checkbox"/> structural hazards <ul style="list-style-type: none"> o The integrity of the building o Stairs, catwalks and platforms o Lift shafts, pits and other floor openings o Falling debris, water tanks etc o Spilling concrete <input type="checkbox"/> general hazards <ul style="list-style-type: none"> o Broken glass o Collapsing stacks of stock o Hazardous contents o Panicking patients o Wild animals o Energised power supplies o Exposed steel constructions <p>Did the candidate:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Explain considerations relating to their surrounding environment? <input type="checkbox"/> Demonstrate awareness relevant to wearing BA? <p>Assessor notes:</p>	The wearing environment is continually assessed.	

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
4.2	<p>Candidate must monitor and manage air supply, including:</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> self- personal supply and safe working duration <ul style="list-style-type: none"> o Check supply on entry o Continue to check at regular intervals <input type="checkbox"/> crew - supply and consumption rate of team <ul style="list-style-type: none"> o Team governed by the lowest pressure o Regular assessments of others supply <input type="checkbox"/> task - to be performed <ul style="list-style-type: none"> o Increased consumption due to difficult conditions and/or arduous work o Enough air for the return journey o Decontamination time <p>Did the candidate:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Monitor and manage the available air supply? <p>Assessor notes:</p>	Air supply is monitored and managed.	
4.3	<p>Candidate must demonstrate BA entrapment procedures in accordance with the fire and rescue service provider</p> <p>Range:</p> <ul style="list-style-type: none"> <input type="checkbox"/> self <input type="checkbox"/> crew <p>Did the candidate:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Demonstrate the procedure to be adopted in the event of entrapment while working in BA? <p>Assessor notes:</p>	Entrapment procedures are demonstrated.	

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
5	Shut down and re-commission BA and specialist equipment.		
5.1	<p>Candidate must demonstrate the shut-down process for BA.</p> <p>Consider the following:</p> <ul style="list-style-type: none"> • Changing from pressure to demand mode (where this is an option) • Undoing all spider harness straps • Removing the facemask but keeping the neck strap positioned so as to protect the visor • Closing the main cylinder valve • Bleeding the residue pressure from the high pressure lines and regulator • Uplift the set tally from ECO (with the rest of their team) <p>Did the candidate:</p> <p><input type="checkbox"/> Demonstrate correct shut-down process for BA?</p> <p>Assessor notes:</p>	BA set is shut down in accordance with SOPs.	
5.2	<p>Candidates must relay all relevant information to the entry control officer in accordance with the fire and rescue service provider.</p> <p>Consider the following:</p> <ul style="list-style-type: none"> • location of areas searched • location of casualties found • location of fire • location of other BA teams • building features and design layout • internal conditions • specific hazards • travel time to reach objective <p>Did the candidate:</p> <p><input type="checkbox"/> Relay all relevant information to the ECO?</p> <p>Assessor notes:</p>	Relevant information is relayed to the ECO.	

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
5.3	<p>Candidates must recommission their BA set and associated equipment ready for redeployment. This should include:</p> <p>Consider the following:</p> <ul style="list-style-type: none"> • Removing the cylinder and marking it MT • Cleaning the webbing if required • Removing the facemask • Washing the facemask in a warm disinfectant and water solution • Rinsing the facemask in cold water • Drying the facemask • Refitting the facemask • Fitting a full cylinder • Ensuring all harnesses and straps are fully extended • Carry out a high pressure test and fill in the set tally • Re-stowing personal set lines and the BA main guideline <p>Note: Candidates should not recharge cylinders unless suitably certified to do so.</p> <p>Did the candidate:</p> <p><input type="checkbox"/> Recommission their BA set ready for redeployment?</p> <p>Assessor notes:</p>	<p>BA Set is fully recommissioned ready for redeployment in accordance with SOPs.</p>	
5.4	<p>Candidate must complete documentation required by their organisation.</p> <p>Consider the following:</p> <ul style="list-style-type: none"> • Set location records • Set use history cards • Set check/test record cards • Cylinder location records <p>Did the candidate:</p> <p><input type="checkbox"/> Complete the documentation required by their organisation?</p> <p>Assessor notes:</p>	<p>All documentation is completed as required by the Fire and Rescue Service provider.</p>	