

Certificate of Competence (CoC)

NZ Certificate in Rope Access – *Level 4

***Advanced Operative (as per AS/NZS ISO 22846.2:2020)**

Candidate's details:

Name: Employer:

Candidate's declaration:

- I believe I have reached a satisfactory level of skill and knowledge to be assessed as competent
- I have a blank safety plan from my workplace which I can complete as part of this assessment
- I confirm any additional evidence brought to this assessment is true, accurate and my own work
- I have had the assessment explained to me and I understand the skills needed to the demonstrated in order to be assessed as "Competent". Due to the range of skills covered in the Level 4 assessment, I understand I may be instructed to work in pairs and/or to undertake "blended" tasks as required by the Assessor.

Signature: Date:

Assessor's details:

Name: Employer:

Assessor's comments:

Assessor's assessment:

The candidate is assessed as ***Competent** / **Not Yet Competent** in this CoC assessment.
(circle)

Signature: Date:

*To gain "Competent" for the CoC, candidates must have obtained "Competent" in the tasks selected by the Assessor during this assessment. During individual/pair/group tasks, the Assessor may judge the competency of candidates based on their practical skills, written expression, theory knowledge and/or verbal discussion.

TASK 1:		Competent or Not Yet Competent	
PLAN & PREPARE ADVANCED INDUSTRIAL ROPE ACCESS WORK <i>(pre-start planning & kit check)</i>			
<p>NOTE Assessor is to brief candidates on the work area and explain the rope access scenarios. All candidates must perform and be individually assessed in the following tasks:</p> <ul style="list-style-type: none"> • Task 1 – plan and prepare advanced industrial rope access work • Task 2 - Rescue a patient past knotted ropes on the patient's ropes • Task 3 - Lead climbing • Task 4 (I) - Aid climbing • Task 4 (II) - Lateral rescue of a patient from an aid climb <p>For the purpose of this assessment, candidates may be assessed in pairs or groups for the following tasks:</p> <ul style="list-style-type: none"> • Task 5 (I) - Construct a cableway • Task 5 (II) - Rescue a patient using a cableway <p>In order to achieve these tasks, candidates may be instructed by the Assessor to combine these tasks (eg. by performing the lead & aid climb to install the vertical ropes and/or build the cableway).</p> <p>Candidate is to:</p>			
1.1	<p>Plan for the advanced industrial rope access work:</p> <ul style="list-style-type: none"> a) State the purpose for the rope access systems and/or equipment b) Obtain pertinent information from the Assessor about the site / task c) Complete a new safety plan on-site (in their employer's blank format) which should include, but not limited to, the following information: <ul style="list-style-type: none"> i. Risk assessment ii. Notification of hazardous works iii. Hazard management plan iv. Control measures v. Design calculations (eg. for cableways) vi. Rescue planning 	C C C	NYC NYC NYC
1.2	<p>Prepare equipment for the advanced industrial rope access work:</p> <ul style="list-style-type: none"> a) Select appropriate equipment required for the task b) Select appropriate quantities of equipment c) Check all equipment and confirm it is safe for rope access use 	C C C	NYC NYC NYC

Assessor's comments:

TASK 2: CARRY OUT ADVANCED PATIENT RECOVERY TECHNIQUES (pick-off rescue, via knotted ropes, using only patient's ropes)		Competent or Not Yet Competent	
NOTE	<p>Assessor is to brief candidate on the patient recovery scenario. Patient to be attached to 2x ropes and positioned approx. 6m above the ground. Both their live and back-up ropes are to have knots tied approx. 3m above the ground. Patient to be loaded on a chest ascender and role play an "unconscious" patient.</p> <p>Candidate must ascend up the patient's ropes (either line), bypass both knots during their ascension, pick off the patient from their ascending device, descend with the patient, bypass both knots during their descent (NB: knots can NOT be used as attachment points), continue descending with the patient whilst keeping the patient and back-up device(s) in a safe position.</p> <p>Patient must be stabilised within 6 minutes and rescued within 20 minutes:</p> <ul style="list-style-type: none"> • time starts when the patient is in position and the candidate is disconnected from the rope system • time ends when the patient is safely on the ground (not suspended in their harness) and the candidate is disconnected from both ropes. <p>The Assessor may (at their sole discretion) add difficulty to the rescue by advising the candidate they may:</p> <ul style="list-style-type: none"> ⊘ NOT shorten the ropes (to simulate no excess rope length available) ⊘ NOT change lines with the patient (to simulate excessive rope stretch) <p>Candidates may only use equipment that they "would normally carry on their harness". Any rescue equipment must be worn the entire day.</p>		
NOTE	Candidate is to:		
2.1	Assess the situation involving recovery by rope: a) Identify all hazards associated with a rope rescue scenario	C	NYC
2.2	Prepare patient for descent: a) Demonstrate safe ascent / knot bypasses / to reach the patient b) Position patient for descent (ie. off their ascending gear) within 6 min	C C	NYC NYC
2.3	Descend with patient and apply basic first aid: a) Demonstrate ability to descend, and knot bypasses, safely with an unconscious patient (ie. so patient's head is kept above their waist) b) Total rescue is complete in less than 20 minutes	C C	NYC NYC

Assessor's comments:

TASK 3: CARRY OUT LEAD CLIMBING SKILLS (lead climbing a vertical structure)		Competent or Not Yet Competent	
<p>NOTE Assessor is to brief candidates on a lead climbing scenario. Candidates to work in pairs and climb a stable vertical structure to a height of approx. 6m and establish a work stance (eg. to operate tools). The chosen structure is to have adequate structural strength and provide adequate hand / foot and protection placement to make a lead climb feasible. A second candidate is to belay the lead climber.</p> <p style="text-align: center;"><i>Candidate is to:</i></p>			
3.1	<p>Prepare site for setting up the lead climb system:</p> <ul style="list-style-type: none"> a) Explain safety plan to be undertaken during the task b) Establish an exclusion zone around the working area 	C C	NYC NYC
3.2	<p>Inspect lead climbing system:</p> <ul style="list-style-type: none"> a) Inspect / assess the lead climb system and confirm if safe to use 	C	NYC
3.3	<p>Carry out lead climbing skills:</p> <ul style="list-style-type: none"> a) Demonstrate lead climbing skills by showing: <ul style="list-style-type: none"> i. Communication between climber and belayer ii. Positioning of protection to minimise free-fall and any possibility of a ground-fall iii. Candidate to remain in total “lead” state throughout the climb (ie. not directly fixed to the structure). iv. The ability for the belayer to lower the climber at any time b) Demonstrate work positioning skills by showing: <ul style="list-style-type: none"> i. Climbing to a work stance position ii. Be supported by the lead climb system iii. Transferring tools between belayer and climber iv. The ability of the belayer to lower the climber at any time 	C C C C C C C C	NYC NYC NYC NYC NYC NYC NYC NYC
3.4	<p>Dismantle lead climb system:</p> <ul style="list-style-type: none"> a) Dismantle lead climb system safely, inspect equipment for damage & correctly store rope access equipment 	C	NYC

Assessor’s comments:

TASK 4 (Part I): CARRY OUT AID CLIMBING SKILLS (aid climbing a horizontal structure)		Competent or Not Yet Competent	
<p>NOTE Assessor is to brief 2x candidates on an aid climbing scenario. Candidates to work in pairs and climb a horizontal (or semi-horizontal) structure to a distance of approx. 8m. The chosen structure is to have adequate structural strength and provide adequate protection placement to make an aid climb feasible. Candidates are to be able to operate in either position of the aid climbing team.</p> <p style="text-align: center;"><i>Candidate is to:</i></p>			
4.1	<p>Prepare site for setting up the aid climb system:</p> <ul style="list-style-type: none"> a) Explain safety plan to be undertaken during the task b) Establish an exclusion zone around the working area 	C C	NYC NYC
4.2	<p>Inspect aid climbing system:</p> <ul style="list-style-type: none"> a) Inspect / assess the aid climb system and confirm if safe to use 	C	NYC
4.3	<p>Carry out aid climbing skills:</p> <ul style="list-style-type: none"> a) Demonstrate aid climbing skills by showing: <ul style="list-style-type: none"> i. Communication between aid climbing team members ii. Positioning of 2x protection points to minimise free-fall and any possibility of a ground-fall (at all times) iii. Each candidate to maintain 2x points of attachments to a suitable “anchor points” (either the structure and/or by rope to the other aid climber) at all times iv. Candidates connection to the structure and/or each other must be consistent with the rescue plan in their safety plan v. The ability for aid climbers to change roles (ie. from lead to follow) at any time, and the ability for either aid climber to rescue the other aid climber at any time 	C C C C C	NYC NYC NYC NYC NYC

Assessor’s comments:

TASK 4 (Part II): RESCUE AN AID CLIMBER (lateral rescue of an aid climber)		Competent or Not Yet Competent	
<p>NOTE This task is a follow-on from Task 4 (Part I).</p> <p>Assessor is to select any aid climber, at any stage, as a patient and advise the other aid climber (the candidate to be assessed) to perform the rescue as per their safety plan.</p> <p>Assessor will nominate a lateral “point of safety” to which the rescuer is to lower the patient to. This displacement will be approximate 1/3 of the height of the patient to the ground. The rescuer will be required to deliver the patient to this lateral point using their aid climbing system.</p> <p>Candidate is to:</p>			
4.4	<p>Prepare patient for descent:</p> <p>a) Demonstrate safe aid climbing to the stranded, unconscious patient within 10 minutes. This step may be optional depending on the location of the patient and rescuer.</p> <p>b) Position patient securely for descent (2x connections at all times)</p>	C C	NYC NYC
4.5	<p>Aid climb and/or lateral descend with patient:</p> <p>a) Adjust aid climb system to allow lateral decent of patient to the nominated “point of safety” given by the Assessor</p> <p>b) Demonstrate ability to descend safely with an unconscious patient (ie. so that the patient’s head is kept above their waist)</p> <p>c) The entire rescue, from start to finish, is to be completed in less than 40 minutes</p>	C C C	NYC NYC NYC
4.6	<p>Dismantle aid climb system:</p> <p>a) Dismantle aid climb system safely, inspect equipment for damage & correctly store rope access equipment</p>	C	NYC

Assessor’s comments:

TASK 5 (Part I): CONSTRUCT A CABLEWAY SYSTEM (cableway construction)		Competent or Not Yet Competent	
<p>NOTE Assessor is to brief 2-3 candidates on a cableway scenario. Candidates to work in groups of 2 or 3 to design and build a horizontal (or semi-horizontal) cableway capable with a span of approx. 15m and a live load carrying capacity of up to 250kg.</p> <p>The cableway is to be capable of moving loads along the systems, allowing for vertical adjustment to navigate obstacles. The chosen structure is to have adequate structural strength to support the loads imposed on the ends / anchors points of the cableway. All forces on components of the cableway must not exceed the SWL of the products. Candidates are to be able to operate in any position of the cableway team.</p> <p>Candidates are to:</p>			
5.1	<p>Prepare site for setting up the cableway system:</p> <ul style="list-style-type: none"> a) Explain safety plan to be undertaken during the task b) Establish an exclusion zone around the working area 	C C	NYC NYC
5.2	<p>Design and build the cableway system:</p> <ul style="list-style-type: none"> a) Calculate the correct design loads on the cableway system b) Build the cableway system, test and confirm if safe to use 	C C	NYC NYC
5.3	<p>Operate the cableway system:</p> <ul style="list-style-type: none"> a) Demonstrate cableway skills by showing: <ul style="list-style-type: none"> i. How to calculate the forces on the cableway pre-start ii. How to operate the cableway and move the load iii. Explaining how the forces of the cableway change with the movement of the load and tension of the system iv. Calculate the forces on the cableway at any one time 	C C C C	NYC NYC NYC NYC

Assessor's comments:

TASK 5 (Part II): RESCUE A PATIENT USING A CABLEWAY SYSTEM (cableway rescue)		Competent or Not Yet Competent	
<p>NOTE This task is a follow-on from Task 5 (Part I). The rescue scenario is based on a worker becoming stranded on the middle of the cableway system (ie. they may either be the intended load or are attached the 2x tensioned ropes of the cableway system to assist the load). Assessor is to check that the cableway system is safe for use by the candidates (ie. the weight of the patient or the patient and load does not exceed the SWL of the cableway).</p> <p>Assessor is to select another candidate as a patient and position them in the centre or approx. 5-7m from any end of the cableway (either as the intended load of the cableway or attached to the tensioned cableway ropes separate from the load). The Assessor will then advise the Candidate to perform the rescue of the patient using the cableway (and/or any additional rope access devices the Candidate has pre-rigged as part of their pre-planning). The candidate is not required to enter the cableway. Instead, they may use the traversing / lowering functions of the cableway to aid the patient recovery.</p> <p>The Assessor will nominate a “point of safety” at one end of the cableway to which the rescuer is to lower the patient to. This displacement will require the rescuer to recover the patient from the cableway using the cableway system and any additional rope access devices.</p> <p>Candidate is to:</p>			
5.4	<p>Prepare patient for recovery:</p> <p>a) Demonstrate knowledge of pre-planning and building the cableway system to allow the recovery of a stranded, unconscious patient</p> <p>b) Demonstrate competence of using the cableway system to recover a stranded, unconscious patient.</p>	C C	NYC NYC
5.5	<p>Recovery and/or descend with patient and apply basic first aid:</p> <p>a) Recover patient to the upper end of the cableway and allow decent of patient to the nominated “point of safety” given by the Assessor</p> <p>b) Demonstrate ability to descend an unconscious patient safely (ie. so that the patient’s head is kept above their waist)</p> <p>c) The entire rescue is to be completed in less than <u>40 minutes</u></p>	C C C	NYC NYC NYC
5.6	<p>Dismantle cableway system:</p> <p>a) Dismantle cableway system safely, inspect equipment for damage & correctly store rope access equipment</p>	C	NYC

Assessor’s comments: