



Pacific Ropes™



Name: _____

Score: ____ / 40 Date: ____ / ____ / ____

LEVEL THREE THEORY QUESTIONS

The theory areas are important parts of the level 3 assessment, comprised of three elements:

- IRATA Job Planning Form (**form 061**) which should be completed from a scenario provided by the assessor.
- Equipment Inspection form (**form 019**) is to be completed specific to equipment provided by the assessor.
- Theory questions; 20 level 2 questions shall be given, these must include at least two questions from each of the seven syllabus category items listed in section 6 of the Technician assessment and Certification scheme, these questions should be completed on the assessment day
- Theory questions; 10 level 3 questions shall be given, these must include at least one question from each of the seven syllabus category items listed in section 6 of the Technician assessment and Certification scheme, these questions should be completed prior to the assessment day.

Planning and management

1. What are the five steps to Risk Assessment?
2. If the first is to remove the hazard, summarize “hierarchy of measures” according to IRATA.
3. What information should be available on site as recommended by the IRATA ICOP?
4. Name three important considerations when signing other technicians log books.
5. How would you use the Materials Safety Data Sheet (MSDS) to determine whether a product had any harmful effects on rope or webbing?
6. Write a brief definition of each of the following categories of working at height; Work Positioning, Work Restraint, Fall Arrest.

Equipment

7. What is the SWL of a sewn tape sling with a breaking load of 25kN? What would be the SWL if the sling was lark's footed or choked?
8. A CE mark on a PPE product indicates what?
9. Give the full EN standard for the following items of equipment;
 - a) Low stretch rope
 - b) Descender
 - c) Helmet suitable for rope access
 - d) Dynamic rope
 - e) Karabiners
 - f) Ascenders
 - g) Full body harness
 - h) Flexible line, guided type fall arrestor
10. Define a "Competent Person" who is capable of carrying out a "Thorough Examination.
11. What are the specific SWL's of the following items of equipment?
 - a) Low Stretch Rope with an MBS of 3000kg.
 - b) Karabiner with an MBS of 25kN.
 - c) Nylon anchor sling with an MBS of 44kN.

Rigging

12. What is the difference between Working Load Limit (WLL) and Safe Working Load (SWL)?
13. What is the difference between a single anchor deviation and a double anchor deviation? Give an example of when you would use each.

Rigging for Rescue and Hauling

14. List four situations where the loading of equipment or system used for rope access could exceed one person?

15. If you were hauling a load with a 2:1 mechanical advantage, and you added a 3:1 to it, and then a further 3:1 to that, what would the mechanical advantage now be?

16. What is the maximum mechanical advantage system you should use when tightening a tensioned line?

Rope Manoeuvres

17. What should the overall minimum strength requirement of a rope access anchor system be when rigging a set of ropes for descent?

18. What should the overall minimum strength requirement of a rope access re-anchor system be when rigging a set of ropes for descent?

Climbing Techniques & Rope Rescues

19. Detail five key safety factors when considering lead climbing as a method of access.

20. Explain how, and in what circumstances a Fall Factor 5 might be achieved.