



Topic of Interest

Online Hoist Re-certification

Power Climber offers an online service school recertification process for a technician's hoist service certificate that has recently expired. Challenge exams will re-certify a technician for period of 2 years without having to attend a school. The challenge exam is a random question exam, presented online through our automated test program. If students successfully pass the challenge exam by earning a score of 90% or higher, they will be granted a 2-year certificate on the hoists that they have challenged.

You will also be asked to purchase new manuals on hoists being challenged to make sure all pages and bulletins are present.

After confirming that you have received and reviewed your new manuals, we will set your technician up with a username and password to take the test. The technician will be sent a link to the website by email with instructions on how to use this site. They will also get their unique username and password.

The test must be passed with a score of 90% or higher. Technicians are immediately notified of their success or failure. If they fail they will be allowed one more time to complete the test. If they still cannot complete the test, they will be required to attend the next possible hoist service school.

The test consists of questions and answers stored in a data base. Each time a test is requested, the user will get a unique test and no two tests are the same.

The test is considered open book, but is offered on the honor system, so only the test taker should be completing the test. They will need to have their manuals available to them during the test. Part of the test will evaluate how well they know this resource information. Expect them to spend between up to 1 hour taking the test.

Below you will find a brief listing of the subjects they will be tested on. Since this is only a brief listing make sure they study all of the previous information they received in class. Anything that was covered in can appear as a test question.

General Information

1. Know the models and distinguishing characteristics.
2. Know what resource information is available to help train mechanics and operators.
3. Understanding of the Service Manual; be able to explain how to use it effectively.
4. Understanding of the traction principle of the hoist.
5. Know the wire rope configurations and sizes that are approved by Power Climber®.
6. Know how to contact Power Climber® Product Support for additional information.

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Mechanical Information

1. Be able to explain lubrication points from drawings in the Service Manual (How much, what type and where).
2. Know and understand the difference between Oilite and bronze bushings.
3. Know and be able to explain the inspection procedures for aluminum cast items.
4. Know and be able to explain the inspection procedures for all “wear items”.
5. Know the purpose of all mechanical components.
6. Know the function and description of the following brake assemblies: Overspeed, Slackrope, and Primary.
7. Know the inspection, service and adjustment procedures for the brake assemblies.
8. Know and be able to explain the transmission assembly inspection and service requirements (lubrication).
9. Know and be able to explain the removal, inspection, and installation for the traction sheave.
10. Know and be able to explain the purpose, removal, inspection, and installation procedures for traction components.

Power Source (Electrical and Air Information)

1. Know and be able to explain the primary versions of electric model hoists.
2. Know and be able to distinguish the difference between all electric motors.
3. Know and be able to describe all electrical components within an electric model hoist.
4. Know and be able to diagnose electric hoist common problems. Scenario based; be able to troubleshoot a problem over the phone effectively.
5. Be able to use an electrical schematic to answer troubleshooting and wiring questions.
6. Know and be able to explain the air hoist.
7. Know and be able to diagnose problems with air motors.
8. Know and be able to describe the different air hoist filter lubricators (new and old styles).
9. Know and be able to explain the air motor rebuild procedure.
10. Know and be able to diagnose common air hoist problems.

Labeling

1. Be able to locate all the labeling on the hoist, and explain where to get the part number information.
2. Be able to explain any label.

Record Keeping and Tests

1. Explain return to rental status testing.
2. Understand and be able to explain why hoists are tested at varying weights and voltages.
3. Know and understand all of the bulletins in the manual and how they are applied.