

Major Component Removal & Replacement

Course Number

10403

Course Duration

5 days

Audience

Intended for technicians who have minimal experience of the removal and installation of the major components of a Solar turbo-machinery package.

Prerequisites

Participants should have knowledge and experience of basic rigging and lifting practices in order to safely and efficiently complete the practical aspects of this course.

Course Description

This course is a combination of classroom based instructor lectures and hands-on practical exercises that will introduce the student to the safe practices, procedures, and techniques used during package major component removal and replacement. The course will focus on the sources of information, methods, and special tooling used by Solar to complete these tasks as part of routine or scheduled maintenance activities. In addition to the basic hands-on tasks, the course will also include practical exercises on risk and hazard assessment and evaluation of machinery performance. The course has been designed to be conducted under controlled conditions at a Solar Global Training Center. The package utilized will typically be a Centaur 40 Compressor package, however the knowledge and skills gained on the course are transferrable to the packages at the students' work sites, with reference to the site-specific technical information.

Course Objectives

On successful completion of this course the student will be able to:

- Demonstrate the proper use of lifting equipment as used during package major component removal
- Demonstrate the necessary skills to complete the task of removal and replacement of package major components
- Locate and apply sources of technical information found in Solar documentation as related to major component removal and replacement
- Complete practical exercises of removal and replacement major components from the package
- Identify the key parameters that may be used to evaluate machinery performance

Course Topics

- Principle of Machinery Maintenance
- Installation and Use of Special Lifting Tools
- Risk and Hazard Assessment and Control
- Practical Major Component Removal and Replacement Exercises
- Performance Verification

Note: PERSONAL PROTECTIVE EQUIPMENT REQUIRED

Participants must bring steel-toed boots, coveralls, safety glasses, and a hard hat.

Variations

An alternative to this 5-day Instructor-Led training course is a blended-learning solution. This comprises a series of eLearning modules that cover the theoretical aspects of the course, followed by a 3-day hands-on workshop conducted at a Solar Global Training Center.

The relevant course numbers for this option are as follows:

50106 - Intro to Major Component Removal & Replacement

50107 - MCRR Planning and Preparation

50108 - MCRR Performing and Post Work

10420 - MCRR - Hands-On Workshop