

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.

Required Prerequisite

Participants must have completed a basic **Rigging and Lifting** course. This course will be offered immediately preceding the Major Component Removal and Replacement course. Students who have already completed a Rigging and Lifting course do not need to repeat the course, but must provide a certificate or transcript verifying that they have successfully completed the 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 is designed to be conducted at a Solar Training Center, based on a Centaur 40 Compressor package, but can be customized for use at a Solar overhaul center or customer site.

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.