

OPERATIONS AND MAINTENANCE LEVEL 1 TECHNICIAN COURSE OUTLINE

Target Participant

The local operator who will perform routine maintenance and complete the Northern Power 100 annual maintenance plan. The local operator will also serve as the on-the-ground first responder should there be a need to inspect the turbine before a fault reset.

Participant Prerequisite Skills

Prior to attending the Level 1 class, it is expected that the Technician will have these demonstrated skills and abilities

- Demonstrated knowledge of AC electricity generation and distribution specifically relative to 480 Volt systems
- Demonstrated ability to climb tower, perform bolt inspections, and re-torque bolts to meet specifications
- Change grease cartridges, receptacles, air filters, etc
- Perform limited troubleshooting and diagnosis
- Trained in industrial climbing and safety procedures

Course Prerequisites

- Successful completion of one of the Installation Training Courses, NPS 100 Installations or equivalent

Course Duration and Location

- One day and takes place at Northern's headquarters in Barre, VT.
- An open-book exam will be given at the conclusion. The areas that will be covered will include basic operations, safety, yearly maintenance, and basic troubleshooting

Course Objectives

Upon completion of this training the technician will be able to:

- Follow all safety procedures required for tower climbing and lock out tag out procedures
- Operate the Base Junction Box Interface and the Up-Tower Controls Cabinet Interface
- Utilize E-Stop – at the appropriate times
- Perform routine maintenance functions
- Complete all tasks as required by the Northern Annual Maintenance Checklist
- Perform electrical systems inspections
- Perform annual Bolt Torque Check
- Perform basic troubleshooting
- Utilize a basic operational understanding of faults and alarms
- Perform visual inspections
- Serve as the eyes and ears for the NPS 100 Technical Support Team
- Submit all required Northern paperwork for warranty compliance