

OPERATIONS AND MAINTENANCE: LEVEL 2 ADVANCED TECHNICIAN COURSE OUTLINE

Target Participant:

The Operations and Maintenance Level 2 Advanced Technician will serve as the regional support resource for Northern Power 100(s). This individual is capable of performing simple to complex service and maintenance functions.

In addition, the Advanced Technician will obtain the training to assist with deeper troubleshooting and diagnosis of the NPS 100.

The technician will also serve as the on the ground first responder should there be the need to inspect the turbine, perform fault resets, perform component replacement, or complete technical service bulletins.

Skills Include:

Prior to attending the Level2 class, it is expected that the Advanced Technician will have these demonstrated skills and abilities:

- Demonstrated ability to configure and utilize remote monitoring software.
- Ability to perform detailed wind turbine troubleshooting and diagnosis
- Ability to perform simple to complex wind turbine service
- Ability to perform simple to complex wind turbine component replacement

Course Prerequisites:

- ✓ Certified O&M Level1 Technician
- ✓ Competently perform all tasks provided by the Operations and Maintenance Level1 Technician.
- ✓ Demonstrated knowledge of AC electricity generation and distribution specifically relative to 480 Volt systems.
- ✓ Familiar with electrical static discharge procedures
- ✓ Trained in industrial climbing and safety procedures

Course Duration and Location

- Two days and takes place at Northern's headquarters in Barre, VT



Course Objectives:

At the end of the course the Advanced Technician will be able to:

- Utilize Smartview to:
 - Diagnose faults and alarms
 - Perform basic trend analysis
- Follow all safety procedures required for tower climbing and lock out tag out procedures.
- Operate the Base Junction Box Interface the Uptower Controls Cabinet Interface to:
 - Put the NPS 100 into and out of Service State
 - Utilize manual controls to operate the NPS 100
- Complete simple to complex NPS 100 component replacement
- Complete simple to complex NPS 100 technical service bulletins

An open-book exam will be given at the end of class