



## WIND TURBINE TECHNICIAN TECHNICAL COURSE

**Course Number: AS 1002**

**Duration of course: 10 days (8 hours each)**

**Ratio: 15 students to 1 instructor**

*This course is recommended for anyone interested in an entry-level wind turbine technician position.*

### SYNOPSIS OF COURSE:

This course offers a complete complement of safety and technical modules designed to prepare new wind turbine technicians for an entry-level position. Students will be able to safely troubleshoot, diagnose, service and maintain a wind turbine.

### TOPICS COVERED:

- Intro to the Wind Industry
- Schematics, Direct Current Theory, Alternating Current Theory
- Electric Static Discharge, Basic Hydraulics, Accumulator Charging
- Fiber Optics, Torquing Fasteners and Equipment
- Control Algorithms, Substations, and Transformers
- Wind Turbine Mechanical Systems & Electrical Systems
- Drivetrain, Gearboxes, Yaw System
- Turbine Maintenance and Service Practices, Troubleshooting, Site Documentation and Reporting
- Rotor Construction, Blade Pitch and Balancing
- SCADA and Data Analysis, Meteorology, Wind Turbine Power Curves

### Certifications/Completion Cards Received After Successful Completion:

Airstreams Renewables, Inc. Certification

### Required Equipment:

Steel-toed boots, cotton pants (jeans) and cotton long sleeve shirts. PPE will be provided.

*Note: Must have ability to climb 300 foot towers.*



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