

WTT 1001 CLIMB SAFETY & TOWER RESCUE

This course combines classroom and laboratory instructions on the safety procedures involved in climbing wind turbine towers. Students will also receive instruction and practice in the proper techniques involved in tower rescue.

WTT 1113 DC THEORY

This course will review the elementary principles of electricity, covering basic units, OHM's law, circuit solutions, magnetism, inductance and capacitance.

WTT 1123 AC THEORY

The study of transient analysis and network theorems for electric circuits. This course introduces resonant circuits, filters, AC power and computer-aided circuit analysis techniques.

WTT 1203 INTRODUCTION TO HYDRAULICS

An examination of basic fluid power, covering hydraulic systems, fluid power symbols, operating theory, components and basic electrical and manual controls.

WTT 2113 WIND TURBINE OPERATION & MAINTENANCE

In-depth study of the components, principles and processes involved in the generation of electrical power using wind energy.

WTT 2213 WIND TURBINE MOTORS & GENERATORS

A study of the operation and maintenance of motors and generators, including an in-depth look at the common components and contrasting operating procedures.

WTT 2313 WIND TURBINE MECHANICAL SYSTEMS

An introduction to operation and maintenance of the mechanical systems that control blade pitch, turbine speed and transfer the energy from the wind through a gearbox to the generator.

WTT 2413 WIND TURBINE SITING & CONSTRUCTION

An introduction to the mapping of wind patterns that help assist in determining where wind turbines will be located and they can be best constructed, delivered and set up for operation.

WTT 2533 WIND TURBINE DIAGNOSIS & REPAIR

The course will cover the theory and practice of installation, operation, maintenance, troubleshooting and repair of wind turbine electromechanical systems.

WTT 2600 WIND TURBINE INTERNSHIP

The cooperative agreements with other educational institutions and/or wind turbine owner/operators, Students will have the opportunity for "Hands On" work on operational wind turbines. Students will work under the supervision and direction of professionals in the wind energy industry. Variable Credit one-six credit hours. May be repeated up to a maximum of six credit hours.