

The Siemens logo is displayed in a bold, teal, sans-serif font.

*Ingenuity for life*

A photograph of two professionals in a meeting. A man in a white shirt and striped tie is pointing at a whiteboard with a black marker. A woman in a pink top is looking at the whiteboard. The background shows a modern office with large windows and wooden accents.

# PTEC 550

## Overhead Transmission Line Asset Management

Siemens Power Academy TD - NA • [usa.siemens.com/pti-education](https://usa.siemens.com/pti-education)

### At a glance

**Overhead Transmission Line Asset Management** provides participants with a fundamental understanding of the commissioning, maintenance and operations techniques that are a vital part of any overhead transmission line (OHTL) asset management program. Designed for electrical technicians and engineers, this course covers concepts that are of special importance to those working in the field.

PTEC 550 participants will explore:

- Pre-operation (commissioning) inspections
- Asset management methodology, including performance measurement, data collection, software tools and reliability centered maintenance (RCM)

- Corrosion and corrosion protection
- Asset management of overhead line components, including degradation and failure modes, inspection techniques, condition assessment and maintenance actions
- Maintenance, including preventative, corrective, live-line and new technologies for OHTL
- Options for increasing the utilization of OHTL, such as uprating, upgrading, refurbishment and life extension
- OHTL thermal ratings establishment and monitoring
- Causes of conductor vibration and mitigation options
- Lightning performance improvement on OHTL, including insulation coordination, line surge arresters and grounding systems

Upon completion of this course, participants will better understand the

fundamentals of OHTL asset management methods and tools and be able to apply this knowledge to their asset management procedures.

### Prerequisites

None

### Course structure

This is a four-and-one-half-day course. Material is presented in both morning and afternoon sessions for a total of six hours of daily instruction. Standard course hours are 9:00 a.m. to 4:00 p.m. each day, except the last day, which concludes at noon.

### To view the PTEC 550 Course Schedule on the web:

[https://siemens.coursewebs.com/cart/pageCourseInfo.aspx?Course\\_ID=PTEC\\_550](https://siemens.coursewebs.com/cart/pageCourseInfo.aspx?Course_ID=PTEC_550)

## Instructors

All courses offered through Siemens Power Academy are developed and taught by leading industry engineers. In addition to their proven instructional ability, our engineers have advanced degrees complemented by first-hand knowledge and experience solving power system problems throughout the world.

## Continuing Education Units (CEUs), Professional Development Hours (PDHs):

Licensed engineers, on a voluntary or mandated basis, attend continuing professional education for licensure renewal to ensure competency. All courses offered through Siemens

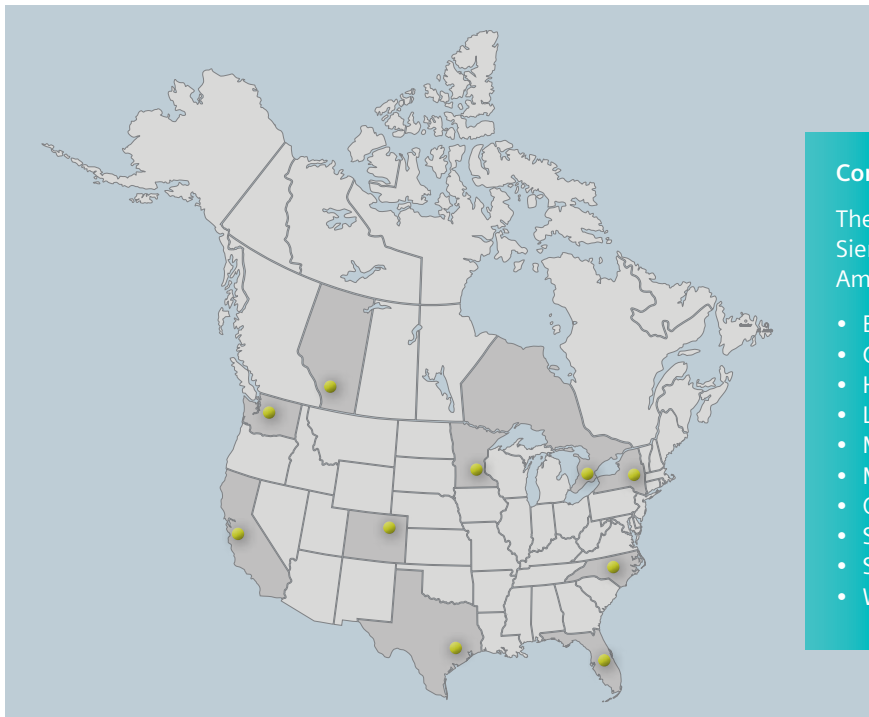
Power Academy meet the requirements for CEUs and PDHs.

- Continuing Education Units (CEUs) are the nationally recognized units for recording participation in professional development and noncredit educational programs. Participants completing this course will be awarded CEUs based on the instructional hours of the course: one CEU is awarded for 10 classroom hours of instruction.
- Professional Development Hours (PDHs) – Continuing education training for the Professional Engineer (PE) – that needs to earn annual Professional Development Hours

(PDHs). Through our instructor-led training, participants earn one PDH for each one hour of instruction. The participant is responsible for maintaining records of courses taken in support of licensure.

## Client site and custom training

All courses are available for presentation at any client's location by special arrangement. At client sites, it is recommended that sufficient computer terminals be available to enable a fully interactive and productive class, if applicable. Client site courses can also be tailored to address specific topics of local importance.



## Convenient training locations

The course is scheduled on a regular basis at Siemens offices located throughout North America, including:

- Burlington, Ontario, Canada
- Calgary, Alberta, Canada
- Houston, Texas, USA
- Littleton, Colorado, USA
- Minnetonka, Minnesota, USA
- Mountain View, California, USA
- Orlando, Florida, USA
- Schenectady, New York, USA
- Seattle, Washington, USA
- Wendell, North Carolina, USA

## Contact us

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