Expert Training Programs
Covering today’s challenges
Siemens Power Academy TD – North America offers four expert level power system training programs on the latest industry topics that are designed to help engineers and business leaders overcome many of today’s greatest challenges. These expert training programs bring knowledge and skills from leading global experts to the participant, while delivering quality, excellent value and measurable ROI.

By attending one of our expert training programs, participants will receive a multitude of benefits:

- Ability to leverage deep technical knowledge and newly acquired skills to help make informed technical and business decisions
- Apply synchrophasor technology
- Design a stronger power system to survive large and small system disturbances
- Manage and coordinate complex dynamics studies and model databases

**Integrated Planning Program**

The Integrated Planning Program is designed for planning engineers, managers or equivalent with 5+ years of experience who are engaged in power system planning activities such as transmission system planning, distribution system planning and integrated resource planning.

In this expert training program, participants will learn about the various planning studies conducted by today’s utilities and how planning is evolving to capture the techno-economic impacts of new technologies such as smart grid, distributed energy resources (DER) and energy storage. Various methods to conduct an integrated approach to planning, along with the associated model requirements, will be presented. Examples and exercises will be provided throughout the program to reinforce learning.
Upon completion of the Integrated Planning Program, participants will be well prepared to conduct the following related tasks:

- Conduct planning studies for high penetration levels of DER
- Integrate DER into load forecasts
- Incorporate the distribution system into resource planning
- Incorporate FERC Order 1000 opportunities into planning
- Conduct production cost studies
- Determine optimal energy resources
- Perform integrated planning to support business objectives and initiatives
- Incorporate uncertainty and risk into the planning process for a more realistic analysis

**Digital Grid Program**

The Digital Grid Program is intended for senior solution architects/engineers and senior managers with 5+ years experience engaged in the IT/OT modernization of the organization.

This expert training program will help participants understand the depth and breadth of the digital grid with a major focus on cyber security and distributed energy resource (DER) optimization, control and monitoring. This Program provides participants with expert technical knowledge that will equip them to make informed decisions and design the digital grid of the future.

Upon completion of the Digital Grid Program, participants will be able to conduct the following related tasks:

- Design the digital systems required to operate the grid of today and tomorrow
- Consider the risks and challenges of cyber security, including the identification of vulnerability risks and threats
- Apply security at each grid layer (physical, communications and IT)
- Incorporate technical impacts of high penetration DER into a digital grid strategy

- Apply deep knowledge of inverter controls, capabilities and limitations to the development of a DERMS platform
- Apply knowledge of evolving cyber security and DER standards and regulations
- Identify and apply industry best practices appropriately

**The Power Industry of Tomorrow Program**

The Power Industry of Tomorrow Program is designed for senior managers, executives, developers and investors who need to understand the industry evolution in order to make key business decisions. Siemens deep technical expertise, international thought leadership and real-world experience in global environments bring unique knowledge and insights to participants.

Participants will increase their confidence in making informed business decisions based on detailed knowledge they will gain throughout this program. This program is led by expert practitioners who are responsible for developing and implementing leading power system strategies and for the global market. Real-world business cases will be discussed for greater understanding.

Upon completion of the Power Industry of Tomorrow Program, participants will be able to conduct the following related tasks:

- Develop business strategies armed with knowledge of the power system industry trends such as changing policies, rapidly evolving markets, de-carbonization, business transformation and advanced technologies
- Incorporate risk into business strategies through a review of unsuccessful business cases
- Apply deep technical understanding of the evolving power system to business plans
- Consider alternative business opportunities for growth

**Delivery**

The expert training programs can be delivered via several methods:

- **Onsite.** Training offered at any global location, i.e. a single company office, for employees only.
- **Hosted Onsite.** Training conducted at any global host location, i.e. company offices, for host employees and participants from external companies. Financial rebates are available in exchange for hosting.
- **Webcast.** Training conducted via an online training platform with live video and audio between the instructor and the participants.
- **On Demand.** Individual interested participants can contact Siemens Power Academy TD – NA to be on standby for an upcoming delivery based on their preferences.

**Certification**

A certificate of completion will be issued to each participant upon meeting all attendance and examination requirements of the respective program. The certificate will document the associated Professional Development Hours (PDH) and Continuing Education Units (CEU) associated with the program.