



## Certified Power Quality Professional

An Industry Recognized Certification for Energy Professionals Working in the Fields of Power Distribution and Management

### Who are Certified Power Quality Professionals?

- Are you an energy engineer responsible for the quality and reliability of power within a facility or building?
- Are you an energy-efficiency consultant that understands how power system interactions can be a source of problems or part of a solution for their clients?
- Are you involved in producing or reviewing power plans and specifications that will impact your business operations or the bottom line?

Certified Power Quality Professionals demonstrate a high level of knowledge, experience, and competence ranging in scope, from policy and issues connected to the nation's power distribution networks, to the technical aspects of a building system's energy requirements to the immediacy of devices sharing a wall outlet. They understand power conditioning and power system interactions, such as grounding, bonding, noise control, surge, and harmonics. They can utilize the latest technologies, and auditing processes, such as monitoring, predictive analysis, and trend reporting to understand the interactions and ensure they do not present problems for facility operation.



#### What does the Certified Business Energy Professional (CPQ®) Certification Program offer?

This program helps educate and qualify individuals involved in the value and impact of energy improvement projects on business. By obtaining the CPQ certification, candidates gain industry and peer recognition by demonstrating their understanding of core principles, practices, and technologies related to energy management and efficiency. The program raises the professional standards, both technical and ethical, of those engaged in this specialized, but growing industry sector.

#### What is the bottom line for me or my company?

Gaining a wide-reaching and industry-recognized certification is always a personal and financial investment. Individuals report career improvements in the form of salary and responsibility increases. The certification shows individuals hold a fundamental understanding of the profession and a commitment to the highest standards of quality. Companies, organizations, and consultants with a CPQ on-staff often see a higher affinity with their customers because CPQs understand their customer's power requirements and are trusted subject matter experts for power quality issues and solutions.

[aeecenter.org/cpq](http://aeecenter.org/cpq)

## What functional areas does the CPQ® Certification Program cover?

The certification program requires fundamental knowledge across several core principles and practices specific to power quality and energy management. These include:

- Standards, Guidelines, and Fundamentals
- Wiring, Grounding, and Noise Rejection
- Lighting and Switching Surge Fundamentals
- Site Analysis Procedures and Instrumentation
- Non-Linear Problems and Solutions
- Power Conditioning Specifying and Selection

## How do I become eligible for AEE's CPQ® certification?

Every certification program offered by AEE is defined by strict standards to ensure the program maintains its industry-wide recognition and credibility. To that end, AEE stipulates three criteria that all CPQ candidates must meet. Firstly, applicants must have relevant experience or educational credentials (see below). Secondly, candidates must undergo a defined training program that aligns with the fundamental knowledge base of the program, and the principles and practices of the industry as a whole. Thirdly, candidates must pass the associated exam to demonstrate their technical knowledge, proficiency, and abilities in the areas of power quality and energy management.

### Experience & Education

Applicants must meet one of the following eligibility criteria:

- Hold a 4-year degree OR Professional Engineer (PE) OR Registered Architect (RA) and 3+ years related\* work experience.
- Hold a 4-year unrelated Bachelor's degree and 5+ years related\* work experience.
- Hold a 2-year associate degree and 5+ years related\* work experience.
- Have 10+ years related\* work experience
- Be a current Certified Energy Manager (CEM®).

\*Related experience in power quality, energy or building or facility management, or electrical design, engineering, or contracting.

## Why would I want to take a training program when I believe I already have the knowledge and experience required to pass an exam?

A CPQ training program provides more value than only preparing individuals to take the associated exam. It brings all candidates to a base level of understanding across a wide variety of power quality and energy management topics.

For those entrenched in their normal daily activities, attending a training program, held away from the office, in a classroom environment can be a catalyst for improvement and change. For many, the chance to network, connect, and learn from other like-minded individuals is incredibly valuable.

## I obtained my CPQ® Certification, where do I go next?

The CPQ certification can help define your status as an energy professional and help progress your career. Once complete, make sure you maintain your account and keep track of your certification on [aeecenter.org](http://aeecenter.org). You can also keep up to date on energy management practices and technologies by joining your local AEE Chapter. Energy professionals continuously tell us that they stay ahead in the industry by getting involved in their local community.

[Find Your Local AEE Chapter](#)

## Which companies and industries value an AEE certification?

You can find AEE certified professionals across markets and industry sectors, from utilities, ESCOs, major multi-national corporations, power companies, respected controls contractors, and manufacturers, to federal, state, and local governments, military, universities, and school boards. Many of these organizations require a certification as a condition of hiring or a requirement for advancement. Government organizations request certified professionals within “Requests for Proposals.” The following list is a sample of companies across a wide range of industries that have demonstrated they value AEE certified professionals.

- 3M
- 3M Canada
- Abbott Laboratories
- AK Steel
- ALCOA
- Alliance to Save Energy
- American Axle & Manufacturing
- Amgen
- Anheuser Busch
- ArcelorMittal
- Archer-Daniels-Midland
- AstraZeneca
- Atlas Copco Canada
- Baxter Healthcare
- Bayer Corporate & Business Services
- Bechtel National
- BMW Manufacturing Corporation
- Boeing
- BP North America
- Briggs & Stratton Corporation
- Bristol Myers Squibb
- Burrows Paper Corporation
- CalsonicKansei North America
- Cargill
- Carrier Corp - UTC
- Caterpillar Inc
- CEMEX, Inc.
- Chevron
- Chrysler
- Conoco Phillips
- Cummins
- Dana Holdings Corporation
- Deere & Co.
- Dell, Inc
- Delphi Corporation
- Duracell
- Eastman Chemical Company
- Eli Lilly & Company
- Eurocan Pulp and Paper
- ExxonMobil
- Fluor
- Ford Motor Company
- Freescale Semiconductor
- Frito-Lay, Inc.
- Fruit of the Loom
- GE Energy
- GE Wind Energy LLC
- General Mills Inc.
- General Motors Energy & Utilities Services Group
- General Motors of Canada
- Georgia Tech Enterprise Innovation Institute
- GlaxoSmithKline
- GM - Brazil
- Goodyear Tire & Rubber Co
- Harley-Davidson Motor Company
- Hess
- Hewlett-Packard
- Hormel Foods
- IBM
- Intel
- John Deere
- Johnson & Johnson
- Kimberly-Clark
- Kraft Foods
- La-Z-Boy Inc
- Lockheed Martin
- Lone Star Steel Company
- Masco Corporation
- McCain Food USA
- Merck
- MillerCoors, LLC
- Motorola
- Nalco Company
- Nestle Purina Pet Care.
- Nestle USA, Inc.
- Northrop Grumman
- Novartis
- Owens Corning
- Papa John’s International
- Penske Truck
- PepsiCo
- Petrobras
- Pfizer
- PPG Industries
- Pratt & Whitney
- Pratt & Whitney Canada
- Procter & Gamble Mfg. Co.
- QuikTrip Corporation
- Raytheon
- Rockwell Automation
- RR Donnelly
- Sanofi-Aventis
- Shaw Industries, Inc.
- Shell Global Solutions
- Sherwin-Williams
- Sikorsky Aircraft Corporation
- Standard Motor Products, Inc.
- Subaru of Indiana Automotive, Inc
- Sunoco, Inc.
- The Dow Chemical
- Towson University
- Toyota
- Tropicana Products, Inc.
- U.S. Steel
- Unilever
- United Technologies
- US DOE
- US EPA
- US Steel
- Vought Aircraft
- Wal-Mart
- Walt Disney
- Weyerhaeuser Company
- Whirlpool
- Wyeth
- Xerox
- Yum! Brands, Inc.

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