



Content
Community
Connection

United States
The Electricity Forum Inc.
742 Pre Emption Road
Geneva, NY 14456
Tel 289-387-1025

Canada
The Electricity Forum
1885 Clements Rd, Unit 218
Pickering, ON L1W3V4
Tel 905-686-1040
Fax 905-686-1078
Toll Free 855-824-6131

Power Factor Training

Course details: <https://electricityforum.com/electrical-training/power-factor-training>

COURSE DATES AND TIMES

January 31, 2025

10:00 am - 4:30 pm ET

May 16, 2025

10:00 am - 4:30 pm ET

September 26, 2025

10:00 am - 4:30 pm ET

The Power Factor Training program is a 12-hour, live online training course designed for electrical engineers, electrical technologists, electrical designers, plant electricians, and electrical maintenance specialists working in industrial, commercial, and institutional power systems.

The course covers the basic principles of Power Factor, its significance in industrial applications, and the benefits of correcting low Power Factor. Participants will learn about the different types of Power Factor and the means to correct it, including reactive power, capacitors, and inductive loads.

The course focuses on implementing Power Factor Correction in industrial applications with variable inductive loads, such as induction motors. Participants will gain an understanding of the different types of Power Factor Correction methods available, including plant-wide and distributed methods, and their respective advantages and disadvantages.

The training program also covers Power Factor principles in single-phase and three-phase AC power circuits. In addition, participants will learn how to calculate the Power Factor and three-phase power and the correction techniques used in each type of circuit.

This course is ideal for electrical engineering, maintenance, and operations professionals who want to gain a deeper understanding of Power Factor Correction and its applications in industrial systems. The live online format allows participants to engage with the instructor and other participants in real time, and the course is designed to be interactive and engaging.

Upon completion of the course, participants will have the skills and knowledge to implement effective Power Factor Correction solutions and reduce energy costs in industrial applications.

Related Courses

[Power Quality Analysis Training](#)

[Power Quality Troubleshooting and Problem Solving](#)

[Power Quality and Harmonics Training](#)

[Power Quality in Motor Control Applications](#)

[Power Quality Considerations for Energy Efficiency Retrofits](#)

WHO SHOULD ATTEND

- Industrial, Commercial, Institutional Electrical Engineers, And Electrical Maintenance Personnel
- Consulting Electrical Engineers
- Project Engineers
- Design Engineers
- Field Technicians
- Electrical Technicians
- Plant Operators
- Plant Engineers
- Electrical Supervisors
- Managers In Charge Of Plant Electrical Infrastructure

STUDENTS RECEIVE

- This Course Includes Our Latest Power Quality And Grounding Handbook!! (Value \$20)
- **\$100 Coupon** Toward Any Future Electricity Forum Event (Restrictions Apply)
- 1.2 Continuing Education Unit (CEU) Credits (12 Professional Development Hours)
- **FREE** Magazine Subscription (Value \$25.00)
- Course Materials In PDF Format

COURSE OUTLINE

Power Factor Correction Training - Course Outline

Day One

Session 1: Introduction & Definitions

- Energy, Power & Power Factor
- Apparent, Real & Reactive Power
- Total Power Factor

Session 2: Problems caused by Low Power Factor

- Electricity costs
- High current and kVA
- Voltage sags
- Infrastructure costs

Session 3: What is your Power Factor?

What is it?

- utility bills
- measurement
- waveforms
- estimation

What causes it to be low?

- Electrical equipment & typical PF
- Typical PF for facilities

Session 4: Improve your Power Factor

Add capacitance

- 1) Minimum capacitance to add
- 2) Maximum capacitance to add

Thumb Rules

- Calculate savings/ROI

Session 5: Locating PF Correction

- Benefits of capacitors
- Options for locating capacitors
- Harmonics and Harmonic resonance

Session 6: Application Issues

- Capacitor switching
- Voltage rise
- Harmonics
- Detuned capacitors

Wrap-up

COURSE SCHEDULE:

Start: 10 a.m. Eastern Time

Finish: 4:30 p.m. Eastern Time

Contact us Today for a FREE quotation to deliver this course at your company's location.

<https://electricityforum.com/onsite-requestforquote>