

Dear Sir/Madam,

PONOVO Power Co., Ltd, together with Power Quality (Thailand) Co., Ltd invite you to join us for the following upcoming training session in Chiang Mai, Thailand.

Training Course:

Understanding IEC 61850 for Digital Substations and Testing Digital Substations

Description:

This 2 day training course covers the fundamentals of IEC 61850 and digital substations. Includes hands on testing these new technologies. IEC 61850 is the current international standard used for electrical grid data communication and digital substations. It is optimized for efficient and reliable transfer of process data and commands within and between Intelligent Electronic Devices (IEDs) and substations servers.

1. Understanding the architecture of IEC 61850 based substation
2. Analyze the Data Model of IEC 61850 IEDs
3. Work with Client/Server, GOOSE and Sampled Values services for utility automation

A Complete test setup will be used in the classroom including:

1. Digital IEDs with Fiber Optic interface
2. Digital relay tester from
3. IEC61850 information analyzer
4. PowerTest relay test software
5. IEC61850 Environment Simulation Software
6. XMLSpy trial version for SCL file analysis
7. MMS Ethernet analyzer (free version)
8. Participants are encouraged to bring their own laptops for practice

sessions and for performing test on IEDs

Who Should Attend?:

This course is intended for substation designers, protection engineers, substation test engineers, and anyone who is interested in developing an in-depth understanding of the IEC 61850 standard and how to test these new digital substations.

Training Fee:

The enrollment fee for this course is US \$1,150 or THB 36,000 per person. Lunches and refreshments are provided on site during training days. **Maximum of 15 participants only!**

Date & Venue:

May 16th and 17th 2014, Chiang Mai Thailand (Hotel to be determined)



Special Offer

Participants are invited to stay for the 14th annual PQsynergy conference which follows this training class. They will receive a 50% discount on registration fee for the conference.

[More Details](http://www.pqsynergy.com) : visit www.pqsynergy.com

Download Registration Form
More Details: Contact Ms. Nipaporn Tel: 662-373-6340 or snipaporn@powerquality.co.th

About Us

PONOVO Power Co., Ltd is the world's leading manufacturer of digital substation testing technology. More details, please visit www.relaytest.com.

Power Quality (Thailand) Co., Ltd has been supplying the latest technology power testing equipment in Thailand (and surrounding countries) for 26 years. More details, please visit www.powerquality.co.th.

Chiang Mai, Thailand

Chiang Mai, is the largest and most culturally significant city in northern Thailand. It is the capital of Chiang Mai Province, a former capital of the Kingdom of Lanna (1296–1768) and was the tributary Kingdom of Chiang Mai from 1774 until 1939. It is located 700 km (435 mi) north of Bangkok, among the highest mountains in the country. The city is along the Ping River, a major tributary of the Chao Phraya River. Chiang Mai means "new city" and was so-named because it was the new capital, founded in 1296, succeeding Chiang Rai (founded 1262) in the capital of the Lanna kingdom.

In recent years, Chiang Mai has become an increasingly modern city and has been attracting over 5 million visitors each year, of which between 1.4 million and 2 million are foreign tourists (depending on the year).

Activities

- **Shopping:** Chiang Mai has a large and famous night bazaar for local arts and handicrafts. The night bazaar sprawls across several city blocks along footpaths, inside buildings and temple grounds, and in open squares. A handicraft and food market opens every Sunday afternoon till late on Rachadamnoen Road, the main street in the historical centre, which is then closed to motorized traffic. Every Saturday evening a handicraft market is held along Wua Lai road, Chiang Mai's silver street on the south-side of the city beyond Chiang Mai gate, which is then also closed to motorized traffic.
- **Thai massage:** The back streets and main thoroughfares of Chiang Mai have an abundance and variety of massage parlours which offer anything from quick, simple, face and foot massages, to month-long courses in the art of Thai massage.
- **Thai cookery:** A number of Thai cooking schools have their home in Chiang Mai.
- **For IT shopping,** there's Pantip Plaza just south of Night Bazaar, as well as Computer Plaza, Computer City, and Icon Square near the northern moat and IT City department store in Kad Suan Kaew mall.
- **Horse racing:** Every Saturday starting at 12:30 are the races at "Kawila Race Track" and betting on the horses is legal.



[Doi Suthep](#)



[Baan Khun Chang Kian](#)



[Bo Sang Handicraft](#)



[Chiang Mai Night Bazaar](#)

Travel to Chiang Mai Airport Quick Facts

Chiang Mai airport IATA code is CNX, served by many International and domestic flights: <http://www.chiangmaiairportonline.com/>

Daily International flights from Korea, China, Malaysia, Singapore, Hong Kong.