



Low and Medium voltage electric network protection coordination and settings calculation. Advanced trainings!

The purpose of the training is to show principles of Relay Protection Coordination to industrial companies' engineers and design engineers. Participants will learn how to analyse the power network modes and provide preventive measures to minimize potential damage during the short circuits. The training course is designed to teach how to perform protection coordination tasks with better quality and efficiency.

Benefits

After the training you'll get **60 days FREE UNLIMITED EA-PSM Electric** software and **CONSULTING** for your project from protection coordination professionals.

Structure

Trainings cover theoretical and practical parts. During the theoretical part lecturers will explain the most important principles regarding protection coordination in grounded and isolated neutral networks. During practical part this knowledge will be used to calculate settings of overcurrent, ground fault, voltage and other relays as well as low voltage protection equipment.

Participants

Industrial companies' engineers working with medium voltage electric networks, electric network design engineers.

Training program:

2 days, duration 16 hours:

Electricity network scheme creation with EA-PSM Electric software

- ❖ EA-PSM Electric software will be installed on your computer;
- ❖ Model a typical electrical network scheme;

Theoretical part:

- ❖ Low and medium voltage fuses operation principle and characteristics;
- ❖ Low voltage circuit breakers' characteristics and application;
- ❖ Overcurrent protection with definite time and inverse time characteristics;
- ❖ Low and Medium voltage network overcurrent protection coordination principles;
- ❖ Voltage protection coordination principles;
- ❖ Ground fault protection coordination principles;
- ❖ Arc suppression coil sizing and operation principle;
- ❖ Current transformer selection according to ALF;

Practical part:

- ❖ Short circuits calculation in low and medium voltage networks;
- ❖ Example on low voltage network overcurrent protection coordination;
- ❖ Example on medium voltage network directional and non-directional overcurrent protection coordination;
- ❖ Example on medium voltage network ground fault protection coordination;
- ❖ Practical tasks done with software EA-PSM Electric.

What you'll learn:

- ❖ Calculate directional and non-directional overcurrent protection settings;
- ❖ Coordinate low and medium voltage protections selectivity;
- ❖ Calculate voltage protection settings;
- ❖ Coordinate voltage protection in the network;
- ❖ Evaluate equipment short circuit capability.

Training date and price:

Date: 21st and 22nd of November.

Location: Warsaw, more information you'll get after registration.

Duration: 2 meetings 8 hours each. Over all 16 hours

Register until: 7th of November.

Price: 490 EUR. Register till 31st of October and get 15% discount. Second booking charged at full published rate minus 50%.

Additional information:

- ❖ EA-PSM Electric software will be installed on your computer. Every participant **will have the possibility to use the software for free for two months**. All the time you will use EA-PSM Electric software, you will be provided with Energy Advice staff consultations.
- ❖ During the training the participants will have the opportunity to solve their own tasks or they will be given examples that correspond to the nature of the work done by the participant.
- ❖ For more details about EA-PSM Electric please visit: <http://www.energyadvice.lt/en/>

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