Learn Grow Succeed

Electrical Protection
Course Introduction:

Electrical protection devices are a fundamental and critical aspect of electrical installations. Protection is applied on a component basis. Relays are associated with each major component of the power distribution system to detect various forms of distress associated with those components. If one of those relays operates, which means that an output contact protective devices which then read more

Course Objectives:

- Appreciate the practical solutions for specifying the correct type of electrical protection
- Understand the comprehensive understanding of principles and selection of relays
- Develop the design of protection schemes
- Learn the construction and functions of instrument transformers
- Explain types of grounding system and earthing fault protection

Who Should Attend?

- Engineers and Technicians from the electricity supply industry
- Technical Management Professionals and Department Leaders
- Engineering Professionals from companies manufacturing and operating power and distribution transformers
- Engineers and Technical Personnel in power utilities, petrochemical plants, service professionals of large infrastructure projects
- Maintenance and operations technicians

Assessment Method & Documentation

Attendance will be taken via the Averest attendance sheet at the beginning of every training day. Assessment is kept informal throughout the learning process until the final day, thus providing valuable opportunities for learning. Some assessments are done in groups providing the opportunity for collaboration and team problem solving, self-assessment is used to guide learner’s knowledge of their learning.

The course itself, instructor presentation and overall experience are also assessed by the participants through the attached feedback form, the results will be shared with your company.
Course Outline

Section One:
• Protection and control devices
• Types of electrical faults
• Characteristics of fuses for electrical protection
• Characteristics of circuit breakers for electrical protection
• Functions of electronic releases
• Time, current and trip curves
• Protection coordination
• LV switchboard protection against short circuit

Section Two:
• Power system architecture
• Protection functions
• Discrimination
• Power system protection
• Sensors
• Current and voltage transformers
• Types of relays
• Numerical relays and functions

Section Three:
• Busbar protection
• Transformer protection
• Motor protection
• Capacitor protection
• Type of related faults
• Relevant protection functions
• Recommended settings
• Applications examples

Section Four:
• Overcurrent protection for phase and earth faults
• Unit protection schemes
• Distance protection
• System integrity protection schemes
• Protection of feeders against overload and short circuit

Section Five:
• Calculation of short-circuit current
• Fault topologies
• Short circuit current at fault point
• Positive, negative and zero sequence systems
• Harmonics effects
• Harmonics mitigation techniques
• Wrap up session
• Q&A session
Our Methodology
Averest’s Training Methodology

The effort is focused on participants to complete the course gaining maximum learning benefits and outcomes. We consider the mindset from the beginning to end, incorporating the growth mind-set theory so attendees are walking away feeling inspired, empowered and have an increasingly positive attitude towards their role with the newly acquired knowledge.

We consider company culture, attendee knowledge and attitudes.

We emphasise on keeping participants engaged by enriching the training with quality audio-visuals, opportunities for practical learning, reflective practices, chances to work in teams with their peers and the opportunity for valuable discussions with peers, Averest representatives and instructor. We ensure there are relevant activities, case studies and examples to frame the learning.

We finally provide an opportunity for assessment and consistent feedback and reflection throughout the learning process, therefore keeping learners aware of their place on their learning journey.
Course Fees
Terms and Conditions

<table>
<thead>
<tr>
<th>Code</th>
<th>Date</th>
<th>Venue</th>
<th>Course Fee</th>
</tr>
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<tbody>
<tr>
<td>EEE 020</td>
<td>29/06/2020</td>
<td>Corus Hotel, Hyde Park, London, UK</td>
<td>$5500.00 USD</td>
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<td>EEE 020</td>
<td>01/06/2020</td>
<td>Corus Hotel, Hyde Park, London, UK</td>
<td>$5500.00 USD</td>
</tr>
</tbody>
</table>

Included in This Package:

At Averest training we provide a wide range of training programs in collaboration with ministries, universities, municipalities, organizations and a number of parties. We believe that high-quality training is essential to the enhancement of skills and abilities to achieve the ultimate vision and mission of a business.

Our proposal consists of following:
- Pre-course consultation
- Training course material
- High experienced instructor/s fee
- Certificate of completion
- Post-course follow-up
- All related Averest’s quality control tools
- Required stationary
- Airport transportation
- 5 or 4 stars training venue

Method of Terms

Payment expected to be done as follows:
- 100% in advance payment to confirm course(s)

Course Withdrawal, Cancellation and Rescheduling:

- Twenty or more business days in advance: a full refund minus $100.00 administration charge.
- Ten to nineteen business days in advance: transfer to another course or receive a non-refundable credit, valid for one year, for another Averest course. Credits are transferable within your organization.

- Less than ten business days in advance: No refund available but you may send others of equal number to the registered to take the registering place without any additional cost or you may request for your course notes to be mailed to you.

Those who fail to show up for the course they registered for, or those who withdraw without providing sufficient notice as described above, will be subject to the full fee of the course and will be invoiced for the full cost of the respective course or program.

In the event that Averest chooses to cancel a course, a full refund of the course fees will be issued to the registrant.
Registration Form

YES, PLEASE SIGN ME UP FOR THE FOLLOWING

Short Code: .................................................................
Course Name: .............................................................
Commence Date: ..........................................................

Salutation: ..................................................................
Full Name: ..................................................................
Venue: ........................................................................
Job Title: .....................................................................
Institution/Company Name: .........................................
Company Address: ....................................................... 
Postal Code: ..................................................................
Country: ....................................................................... 
Company Website: ....................................................... 
Nature of Business: ....................................................... 
Email: ..........................................................................
Office Telephone: .........................................................
Mobile: ........................................................................

Yes, I would like to receive notification of upcoming courses by email

PAYMENT DETAILS (Bank Account (USD) Details):

Company Name: AVEREST GROUP EGITIM TURIZM ORGANIZASYON SANAYI VE TIC LTD STI
Bank Name: AKBANK
Bank SWIFT Code: AKBKTRIS888
Branch Name: FATIH/Istanbul
USD – Account No: 0081267
USD – IBAN: TR28 0004 6001 5200 1000 0812 67
Bank Branch Address: Macar Kardeşler Cad. No62 Fatih - İstanbul-TURKEY
Branch Telephone: 0212 534 80 50
Branch Fax: 0121 531 19 09
UPCOMING COURSES

26/10/2020 Retail Business Management
26/10/2020 Bridge Maintenance and Inspection

GROUP DISCOUNT:
2nd Registration: Save %10
3rd Registration: Save %15
4th Registration: Save %20
Additional Registrations: Save %25

2 WAYS TO REGISTER:
1. Online: www.averesttraining.com
2. Email: info@averesttraining.com

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