



E P E S O L

TRAINING

S C H O O L

Extraordinary understanding of extraordinary things

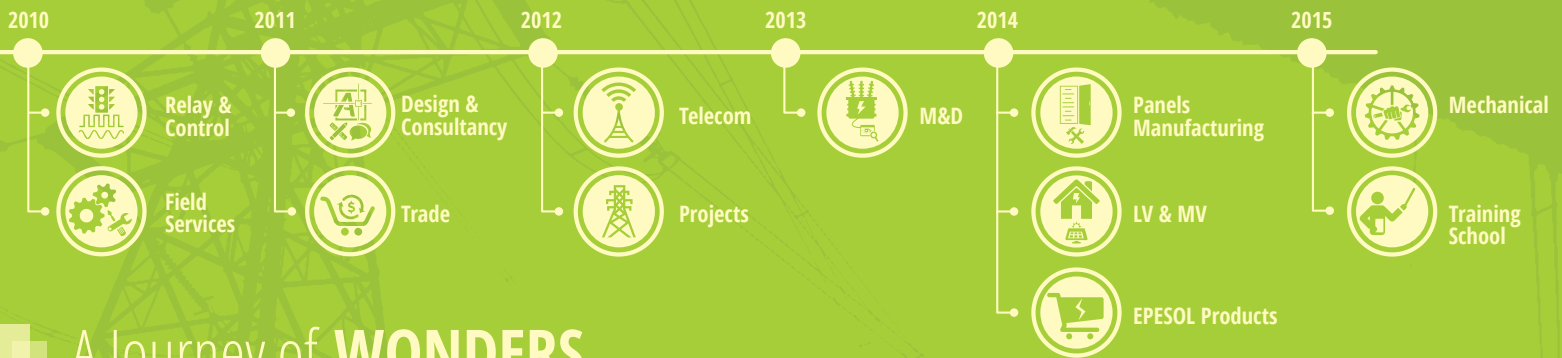


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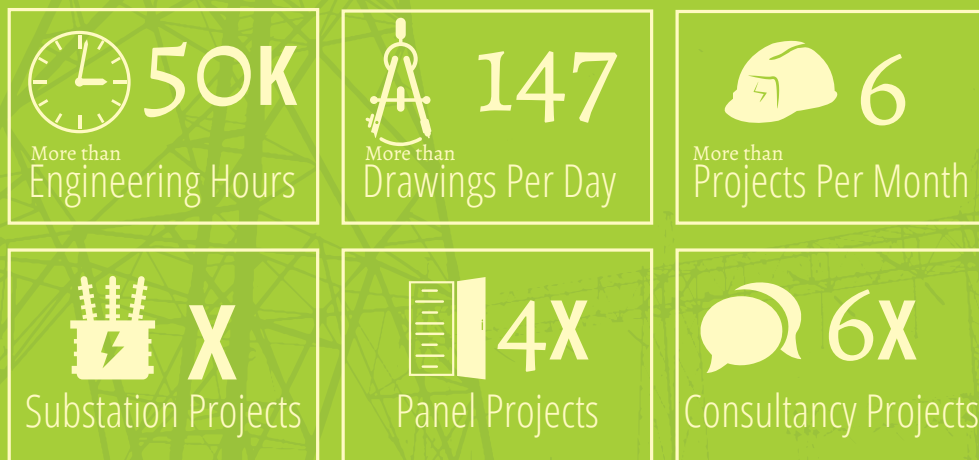
A Glance - 2014

EPESOL's Journey



A Journey of WONDERS

Design & Consultancy



UK, UAE, Qatar, Malaysia, Iraq, Oman, Nigeria, Yemen, Saudi Arabia, Pakistan.

Sales



Field Services



• Data of FY-2014

• Consultancy related activities are not included in per day calculation



WHAT WE OFFER?

Our protection relaying school offers comprehensive professional training programs for various aspects of power systems. These programs are conducted and organized by the protection specialists of our Protection Relaying school. We offer training programs for basic electrical power system concepts, power system protection, protective relaying and product applications. In addition to in-house facility of conducting training programs we offer out-door training programs for industrial customers as well. We have developed our training programs systematically from basic to advanced levels so as to build solid comprehension of concepts. Animations are included for more clear understanding. Interactive demonstrations and examples are also included to check the development of understanding during training.



Power System Fundamentals



This training program is intended to address the needs of power industry professionals who want to refresh their knowledge of basic power systems, especially concepts used in understanding power system protection. This is to ensure that one fully gets familiar with basic theory to apply to practical systems. This programs covers:

- Per unit system
- Sequence diagrams
- Power system faults
- Sequence components theory
- Instrument transformers
- Transformer basics

and many more topics.

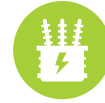


FEEDER PROTECTION



This professional training program is intended to address the needs of power industry professionals, specially electricity utility professionals, and covers protection of feeders and related issues. This covers but not limited to:

- Basic concepts of feeder protection
- Coordination issues
- Feeder protection devices
- Time OC & instantaneous OC
- Directional / non-directional OC
- Over current phenomena(OL/SC)
- Setting criteria for feeder protection



TRANSFORMER PROTECTION



This training program is devised to target the protection issues of one of the most important component of power system, transformer. This animated and demonstrative program covers basic concepts and concludes at instructing settings for DTP. Few of its contents are:

- Model & losses
- OC/OE protection
- Winding connections
- Differential protection
- Transformer REF protection
- GE make transformer differential protection DTP
- GE make distance protection D60



TRANSMISSION LINE PROTECTION



This training program revolves around transmission line protection and related issues. It starts with basic theory of transmission lines and concludes at demonstrating settings calculations of D60. This covers:

- Basic theory
- Power swing
- VT fuse failure
- Application notes
- Switch-on-to-fault
- Tele-protection schemes
- Setting calculation criteria
- GE make distance protection D60



GENERATOR PROTECTION



This training program covers the core of power systems, the generator. The pivot of training activity is to comprehend the construction, working and human errors associated with generators. We, thus, cover diverse topics:

- Generator normal operations
- Generator differential relay - 87G
- Generator ground fault protection
- Reverse power protection
- Over-excitation
- Loss of field protection
- Synchronization protection
- Accidental energization protection



MOTOR PROTECTION



This training program encompasses the motors that total the maximum load in power systems. Our training activity aims to cover the prevailing issues in motors, their solutions and protection. We, thus, cover:

- Characteristics of motors
- Motor starting - issues & solutions
- Motor overload protection
- Thermal model protection scheme
- Mechanical jam protection
- Stator differential
- Phase unbalanced protection
- Other protection schemes



OUR TRAINERS



Engr. Noor Al Huda



Engr. Akhlaq Ahmad



Engr. Mubasher Ahmed



Education

Master in
Business Administration
Virtual University of Pakistan

Bachelor of Science in
Electrical Engineering
University of Engineering & Technology

Master in
Business Administration
Government College University

Master of Science in
Electrical Engineering
University of Engineering & Technology

Master of Science in
Electrical Engineering
University of Engineering & Technology

Bachelors of Science in
Electrical Engineering
University of Engineering & Technology



Skills

Power System Fundamentals

Transformer Protection

Transmission Line Protection

Generator Protection

Motor Protection

Transmission Line Protection

Feeder Protection

Genrator Protection

Motor Protection



Experience

10
Years

25
Years

15
Years



WHY US?

Professional skill development is our prime focus. Our protective relaying school continuously monitors research and development going on in the field of power system protection and updates training programs accordingly. Any new development in the field of power system protection is reflected in our training programs. This is to ensure that our customers are updated and informed by any new technology introduced in the market. Our protective relaying school offers following training programs.



& EXPOSURE & EXPERIENCE

- EHV, HV, MV & LV levels engineering firm.
- More than 30 years of experience.
- Partner GE (USA) for Pakistan
- JV AJEC for Saudi Arabia



& PRODUCTS & SKILL HANDS

- Partner for GE Energy for LV products.
- Customised Solutions.
- Craftsmanship by experience of EHV, HV and MV - national & international - levels



& BRAND QUALITY

- Yearned name of quality by market leaders
- Continuous update of knowledge base
- Quality Assurance Program
- Assets worth more than few extra bucks



& SUPPORT SERVICES

- Branded after sales support
- Smooth experience
- Perfect and Optimum
- Educating clients on grey areas



Partner
GE Energy



Get in Touch!



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