



Calendar of Forthcoming Events 2010



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11 – 22 Jan 2010	Power System Engineering <p>This 10-day course covers all aspects of power systems engineering and provides delegates with a sound foundation upon which to pursue a power engineering career. Whilst it is based on the existing popular and very successful suite of EA Technology electrical engineering courses much new material has been added to cater for the particular needs of delegates. The course has been designed for new graduates, engineers new to power systems engineering and those with an ex-craft or technician background moving into power systems engineering roles.</p>	
6 – 7 Apr '10	Network Planning Foundation <p>This two day course introduces delegates to basic power system planning on high voltage and low voltage networks. It is applicable to engineers and technicians new to planning from both the DNO and industrial sectors.</p>	
4 – 5 Feb '10 6 – 7 Sept '10	Switchgear Technology for Power Systems <p>A two day course providing an essential update on technology and practice in this field. The course considers the technical options and develops an understanding of switching phenomena essential for reliable system operation.</p>	
10 – 11 Feb '10 14 – 15 Sept '10	Cables for Power Systems <p>This two day course introduces power engineers to the types of cables used in power systems in both electricity companies and in the industrial sector. Following a section covering the basic theory, the course examines cable components and manufacturing techniques, types of cable and selection of size and current rating, specifying and purchasing cables, national and international cable specifications, installation aspects, maintenance policies, cable asset management and present issues and developments.</p>	
22 – 23 Feb '10	Distribution Overhead Lines <p>This two day course has been designed to cover many overhead line issues of the moment including the effect of recent European regulations on our standards, line design, lightning protection, helicopter and foot line patrols, including condition assessment, and live line working. New developments such as low sag 'hot' conductors and new covered conductor types and insulators are also included.</p>	
24 – 25 Feb '10 26 – 27 Oct '10	Distributed Generation <p>A two day course concentrating on the effect distributed generation has on electricity networks at low voltage and high voltage. The course includes engineering recommendations, technical requirements for connecting embedded generators, operation of networks, network design, commercial issues and the future of distributed generation.</p>	
4 – 5 May '10	Cable Joints, Terminations & Accessories <p>A two day course providing a comprehensive update on the latest in cable joints, terminations and accessories. Topics include XLPE cable, mechanical connectors, elastomeric insulation systems, resin systems, heat shrink technology and their applications.</p>	
1 – 2 Mar '10 22 – 23 Sept '10	Wind Farms - a project manager's guide to the electrical aspects <p>This two day course is designed to assist project engineers and others who are involved in the construction, commissioning and operation of wind farms to understand the electrical issues these projects present. Covering electrical design, standards, procurement and testing involving switchgear, transformers, cable systems, protection, earthing, enclosures, lightning protection and the distribution or transmission company interface, i.e. everything below the nacelle. An electrical engineering background not required.</p>	

<p>28 – 29 Sept '10</p>	<p>Engineering Recommendation G5/4 & Power Quality Workshop</p> <p>A two day workshop that explains Engineering Recommendation G5/4 and G5/4-1 on harmonics and illustrates its application through case studies.</p>
<p>20 – 21 Jan '10 3 – 4 Mar '10 16 – 17 Nov '10</p>	<p>Substation Earthing</p> <p>A two day course providing a comprehensive review on the latest developments in earthing practice at transmission and distribution substations. The course will include developments in standards and use of computer software.</p>
<p>5 – 6 Jan '10 1 – 2 Feb '10 4 – 5 May '10 8 – 9 June '10 13 – 14 July '10 20 – 21 Sept '10 29 – 30 Nov '10</p>	<p>SF₆ Training</p> <p>This one-day or two day course provides delegates with a knowledge of the chemistry, degradation and diagnostic testing of SF₆ gas in switchgear and moves on to include its handling, disposal, recovery and recycling. The safe handling, environmental and legal issues surrounding SF₆ are also discussed along with a presentation on service carts and measuring instruments. Practical demonstrations of gas sampling, on-site tests, topping up and degassing procedures have also been included. Finally, failures of SF₆ switchgear are also discussed. Day two is for assessment purposes, please call for details.</p>
<p>10 – 11 Mar '10</p>	<p>Power Cable Fault Location</p> <p>A two day course providing theory and in-depth practical fault location and diagnostics on power cables in operation. This course is led by a world authority on fault location and delegates will have an opportunity to use types of fault location equipment.</p>
<p>16 – 17 Mar '10 12 – 13 Oct '10</p>	<p>Transformers for Power Systems</p> <p>A two day course providing a comprehensive update on the latest in transformer design and developments, providing an insight into specifications, basic theory, oil and alternative mediums, protection, tap changers and failures.</p>
<p>23 – 24 Mar '10</p>	<p>Distribution Planning</p> <p>This course will build upon the areas covered in the Foundation Planning course and will introduce delegates to practical examples of the application of sound planning policies. A variety of applications will be covered with the emphasis on workshop type sessions with some use of role-play.</p>
<p>13 – 14 Apr '10 19 – 20 Oct '10</p>	<p>Basic Protection</p> <p>This two day workshop introduces delegates to the basic protection systems using a case history example which they will work through to produce a protection system based on a typical HV network and then on to a commercial or industrial installation.</p>
<p>20 – 21 Apr '10 16 – 17 Nov '10</p>	<p>Project Management</p> <p>This course aims to help managers, engineers and technicians to become effective managers of electrical projects. Delegates can work through case study examples that help to reinforce the course's key learning points. The course is equally applicable to those who manage single projects or a portfolio of electrical projects at all voltage levels from HV/LV, 132/33kV through to 400/275kV.</p>
<p>13 – 14 Apr '10 30 Nov – 1 Dec '10</p>	<p>Asset Management</p> <p>This course examines the effective management of assets which is fundamental to the success of asset intensive businesses. It has been designed to provide managers and practitioners with an understanding of current thinking on modern principles, processes and techniques and the main learning points are underpinned by case studies and delegate break-out sessions. Additionally, the background to BSI PAS 55 is covered with its links to other standards being illustrated and, finally, the PASS 55 accreditation process is discussed.</p>
<p>6 May 2010</p>	<p>Electrical Safety – Safe Working Practices Conference</p> <p>This one day conference has been designed for owners and operators of electricity networks, plant and equipment. It starts by looking in detail at the issues raised by HSG 85, 'Safe Working Practices' and goes on to look at the use of personal protective equipment, maintenance benchmarking, the effects of fault levels, embedded generation, reverse power flows, earthing and earth testing.</p>

<p>26 – 27 Jan '10 6 – 7 Apr '10 6 – 7 Jul '10 13 – 14 Oct '10</p>	<p>Partial Discharge Training</p> <p>This one or two day course trains delegates in the use of hand-held partial discharge instruments. Discharge theory is covered and various PD instruments are demonstrated along with ultrasonic PD detection. In the one-day course the PD monitor is briefly discussed. However, in the two-day course the PD monitor is covered in some detail and the second day will be spent showing how it is installed, records PD data and analyses and interprets it.</p>
<p>18 – 19 May '10 23 -24 Nov '10</p>	<p>Application of Variable Speed Drives & Rotating Machines</p> <p>The introduction to this course takes delegates quickly through basic theory for rotating machines and then moves on to introduce the power electronics used in AC variable speed drives. The application of variable speed drives includes performance, protection and matching torque demand to torque delivery. It then moves on to external factors for selecting variable speed drives, harmonics, filters and the interface with electricity utilities including the demonstration of a power system analysis programme.</p>
<p>25 – 26 May '10 2 – 3 Nov '10</p>	<p>Commissioning & Testing</p> <p>This course will take delegates through the process of commissioning, fault finding and of new electrical installations; it is also applicable to existing installations that have proved to be faulty or inoperative. The course will take delegates from end-to-end from planning, design, installation, safety, earthing, primary and secondary injection testing, commissioning through to switch on and results and records. The course also includes practical hands-on testing workshops that will reinforce the main learning points.</p>
<p>1 - 3 Feb '10 5 – 7 Oct '10</p>	<p>Power System Protection</p> <p>A three day course providing an up-to-date practical approach to protection on power systems, covering all aspects from the role of protection, design principles, radial and non-radial systems, transformers, embedded generation and management of protection.</p>
<p>26 - 28 Jan '10 1 – 3 Jun '10</p>	<p>Advanced Cables – revised programme</p> <p>A three day course on cable system engineering, using example circuits, to take the participants from the planning stage through the preparation of technical and commercial specifications for the tender document, bid adjudication, contract award, manufacture, installation, maintenance and operation. The management of existing cable assets is considered in terms of condition assessment, life estimation, repair and diversions.</p>
<p>17 June '10</p>	<p>Electrical Safety - Keeping Electrical Switchgear Safe Conference</p> <p>This one-day conference introduces the new Health and Safety Executive publication "Keeping Electrical Switchgear Safe". Whilst it is primarily aimed at owners and operators of electrical switchgear in the industry and commercial organisations, electricity distribution or equipment suppliers may also find it of use. The conference will help managers, engineers and other staff understand their responsibilities and duties in the selection, use, care, maintenance and operation of electrical switchgear.</p>
<p>21 – 24 Jun '10 6 – 9 Dec '10</p>	<p>Oil Filled Cable Systems</p> <p>This course held over four days is for managers and engineers with responsibility for managing, operating, diverting, maintaining and repairing oil filled cable systems. Delegates will learn how to undertake sufficient calculations to ensure their oil filled cable systems are being managed effectively. Also, the course will give them confidence to audit the work and recommendations of contractors and suppliers.</p>
<p>8 – 9 Feb '10 15 – 16 Jun '10</p>	<p>Understanding Lightning Protection</p> <p>This two day course takes delegates through the basics of lightning to the major effect inflicted on buildings, equipment & systems including telecommunications and power system structures. A focus on the impact on buildings and structures with the application of risk assessment in the formulation of protection strategies, lightning protection systems and their associated earthing arrangements, along with possible mitigation requirements and associated economic evaluation.</p>

<p>21 Oct 2010 Re-introduced into the programme</p>	<p>Failure Analysis & Investigation</p> <p>This course examines best practice, procedures and methods for failure analysis and investigation. It covers well-documented investigation techniques, handling and analysis of evidence and reporting, panels of inquiry and how the impact of information gleaned from such investigations can be used for asset management decisions.</p>
<p>9 – 10 Nov ‘10</p>	<p>Stability & Voltage Control</p> <p>This course covers the theory and practice of stability and voltage control in distribution networks with distributed generation. The key learning points are reinforced via a series of real rural and urban network scenarios with various fault levels, numbers and sizes of generators connected.</p>

For further details of these events, please contact Jackie Clarke or Vanessa Revell on:

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