



ETAP POWER SYSTEMS ANALYSIS WORKSHOP REGISTRATION

Plan to attend an ETAP Power Systems Engineering workshop in your area. Get the most of this powerful software by increasing your knowledge of ETAP.

We are pleased to present a series of workshops and seminars for ETAP in locations across West Africa.

Location	Course, Date and Duration	Training Venue
Lagos, Nigeria	E113: Power Systems Engineering 1 3 Days – Mar 22-24, 2011.	3 rd Floor, Reals Plaza. 1 Dosunmu Street, Alausa CBD, Ikeja Lagos.
Lagos, Nigeria	E113: Power Systems Engineering 1 3 Days – June 21-23, 2011.	3 rd Floor, Reals Plaza. 1 Dosunmu Street, Alausa CBD, Ikeja Lagos.
Lagos, Nigeria	E113: Power Systems Engineering 1 3 Days – August 23-25, 2011.	3 rd Floor, Reals Plaza. 1 Dosunmu Street, Alausa CBD, Ikeja Lagos.
Lagos, Nigeria	E113: Power Systems Engineering 1 3 Days – November 22-24, 2011.	3 rd Floor, Reals Plaza. 1 Dosunmu Street, Alausa CBD, Ikeja Lagos.

Discounts:

- **Pre-registration and Payment:** If attendee registers **and pays** 30 days prior to the training class, the attendee fee for course selected is discounted **10%**.
- **Educational** – Full-time registered professors or lecturers for post-secondary educational facilities in Nigeria and Ghana receive a 15% discount.
- **Bulk Attendees:** 15% discount for companies that register more than five engineers for a particular class.

Please use the form below to register for these sessions. Space is limited, so register early.

- Price in Naira, US Dollars or Ghanaian Cedis only. Naira Payment details is as stated below. For Dollar and GHC payment, please contact us.
- Payment in full must be received two weeks prior to start date of course.
- Cancellations will be fully refunded if received 30 days prior to commencement of course. Cancellations received after 30-day period and up to and including 15 days prior to course will be credited for a future ETAP workshop of similar value.
- Course registration includes refreshments and lunch.
- Each individual is provided with a computer loaded with ETAP software for use during class time.



Summary Description:

This hands-on workshop provides the skills, knowledge, and techniques necessary to become proficient in ETAP to conduct power system studies. The purpose of this workshop is to develop a thorough understanding of ETAP's capabilities and analytical techniques to solve a variety of practical problems in your industry and meet electrical design project deliverables.

Training will be handled by an ETAP certified instructor with practical experience. Past attendees have found excellent value in these workshops and have greatly improved their productivity.

Major Topics:

Day 1	➤ ETAP Overview	➤ Library System
	➤ One Line Diagram	➤ Load Flow Modeling.
Day 2	➤ Load Flow	➤ Short Circuit Analysis
	➤ Cable Systems Review	➤ Device Coordination/Selectivity (STAR)
	➤ Motor Acceleration Review	➤ Transformer Sizing
Day 3	➤ Device Coordination	➤ Ground Grid Systems
	➤ Device Sequence-of-Operation	➤ Battery Discharge & Sizing
	➤ Arc Flash	

Other topics such as Cable Pulling, Harmonic Analysis, Parameter Estimation, Transient Stability, Generator Start-Up, Optimal Power Flow, Reliability Assessment, Optimal Capacitor Placement, Unbalanced Power Flow, DC Load Flow, DC Short Circuit, Control System Diagrams, Wind Turbine Analysis, etc. are available via onsite training courses or attendance to advance sessions.

WHO should attend?

This workshop is tailored for both novice and intermediate electrical engineers. Participants do not need any advanced knowledge of electrical engineering to participate as the class will involve about **75% hands-on** experience with ETAP during the course.

WHAT will you gain?

This training is tailored towards electrical engineers' most common day-to-day use of ETAP software. Hence, we believe that this training will better equip attendees to supervise and analyze electrical power systems projects and models.



At the end of the ETAP training, attendees will have learnt the necessary skills in order to:

- Use the different features of ETAP software for basic power systems analysis, modeling and supervision.
- Carry out common electrical studies on power system models on all topics covered in the training.
- Understand the basic requirements of carrying out various electrical studies and modeling.
- Acquire analytical skills and industry practices for electrical systems design, modification and upgrade.

WHEN will it pay off?

Immediately. By applying the hands-on experience you receive using ETAP to find engineering solutions to real world scenarios, and by modeling and analyzing your power system using ETAP, you will find yourself more productive the very day you return to work.

WHY should I enroll?

To have hands-on experience of using state-of-the-art engineering tools – the most powerful power system analysis software – ETAP. You will also pick up skills from an industry expert in electrical engineering systems design.

For more information:

Please contact Adewale Marthins (+2348033962715) or
 Stella Joshua (+2347061640990)
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 Trans Amadi Industrial Layout, PortHarcourt.
 etap@gilautomation.com
 +23484783400
 Or, visit
 www.etap.com and www.gilautomation.com



Workshop Registration Form

Please Email completed form to etap@gilautomation.com

Please fill out the form below and send it back to ETAP West Africa by email (etap@gilautomation.com). Registration is complete when the enrollment fee is received and the completed form is returned.

Enrollment fees are non-refundable if cancellation is made less than two weeks prior to the workshop.

Workshop Registration:

Name & E-mail address:

Current ETAP User: Yes No

Company name:

Course Registered for (Date & Venue):

Participant's Phone No(s):

Participant's Fax No(s):

Payment Method:

Please check the payment method as appropriate (Electronic Payment is preferred):

Direct Deposit by electronic transfer Company PO (Return with this form)

Total Amount:

Ways to Pay:

Direct Payment :

Please send a completed form alongside an electronic scan copy of payment teller or deposited cheque to etap@gilautomation.com

Bank Details:

Bank Name: Skye Bank Plc (Any branch near you)

Account Name: GIL Automations & Control Services Ltd

Account Number: 1591770007362