



Annual Southwest Electrical Metering School

October 18-22, 2004
Brazos Center, Bryan, Texas

COORDINATED BY
The Electric Power Academy
Engineering, Utilities and Public Works Training Institute
Texas Engineering Extension Service
The Texas A&M University System

IN COOPERATION WITH
Southwest Electrical Metering Association



General Information

DATE: October 18-22, 2004

LOCATION: Brazos Center
3232 Briarcrest Drive
Bryan, Texas 77802

A map to the Brazos Center can be found at <http://www.co.brazos.tx.us/eventfac> then click on Regional Map or call 979-776-8338 for directions.



TIME: 10:30 a.m. - 1:00 p.m. - Registration (First Day)
1:00 - 1:30 p.m. - General Opening Session (First Day)
1:30 - 5:00 p.m. - Sessions (First Day)
8:00 a.m. - 5:00 p.m. - Sessions (Tuesday through Thursday)
12:00 noon - Adjourn (Friday)

STUDENT PARTICIPANT FEE: \$165 (\$195 after 10/4/04)

EXHIBITOR SPACE: \$65 per table

MANUFACTURERS/SUPPLIERS FEE:

Members \$95 per person

Non-Members \$295 *Note: Non-member registration fees should be mailed to SWEMA treasurer, Billy Peel.*

For detailed information visit the SWEMA web site at <http://www.swema.org>.

DISPLAYS

Manufacturers and suppliers from across the nation exhibit equipment and products Tuesday and Wednesday.

NOTES FOR 2004

1. Utility Representative Meeting - Wednesday at 10:00 a.m.
2. SWEMA Business Luncheon - Wednesday at noon
3. Manufacturer/Supplier Exhibits - Tuesday and Wednesday .
4. Certificates given to those participants with 100% participation



To register: 800-824-7303
For information: 979-845-6563



**To register for the
Annual Southwest Electrical Metering School
call 800-824-7303.**

For information call 979-845-6563.

Course Information

Certificates of Completion: Certificates are issued to participants with 100% attendance. (*Roll will be taken at random times during each day.*)

COURSE 1 - EU-ED5002-05 INTRODUCTION TO ELECTRICAL METERING

This course is designed to provide essential basic training to individuals entering the electrical metering field. The emphasis on this course is on single-phase applications.

TOPICS

- Electric Power Systems
- Energy/Power Concepts
- Power Triangle and Vector Concepts
- Meter Theory
- Meter Testing Concepts
- Basic Electricity and Lab
- Load Characteristics and Lab
- Basic Transformer Theory
- Meter Forms and Applications
- Basics of Meter Safety



COURSE 2 - EU-ED5003-05 ADVANCED ELECTRICAL METERING

This course is designed to provide essential training to experienced meter technicians. The emphasis of this course is on the poly-phase and advanced metering applications.

TOPICS

- Review of Electrical Power Concepts
- 4W, 3P Delta Theory and Metering Applications
- Handling Customers with Care
- 3W, 1P and 3P Theory and Metering Applications
- 4W, 3P Wye Theory and Metering Applications
- Distribution Transformer Theory and Metering Applications
- Instrument Transformer Theory, Testing and Metering Applications
- Advanced Meter Safety
- Reactive Metering Concepts
- Troubleshooting Diagnostic Errors
- Power Quality Principles



COURSE 3 - EU-ED5004-05 COMPLEX ELECTRICAL METERING TECHNOLOGY

This course is designed to provide the experienced technician with the latest technological changes and improvements in the metering field.

TOPICS

- Review of Poly Phase Metering
- ECRICOT Deregulation Update
- Power Quality Measurements
- Transformer Loss Compensation
- Solid State Metering Diagnostics
- In-Service Testing of Instrument Transformers
- KYZ Metering
- Underclass Recorders
- Introduction to AMR Systems
- Integrated Communications
- Fiber Optics and Instrument Transformers
- Field Testing of Solid State Meters and Devices

COURSE 4 - EU-ED5005-04 DIVERSIFIED ELECTRICAL METERING TECHNOLOGY

This course is designed to provide experienced metering personnel an opportunity to select the training topics to meet their individual training needs.

Limited to the first 25 people who register.

Design your own course! Choose topics you wish to attend from Courses 1, 2 and 3.

How to register for Course 4:

1. Call our office, or fax your registration form indicating your choice as Course 4.
2. We will fax a list of the available course topics and the times they are scheduled.
3. Return your choice of topics to our office two weeks prior to the school, and we will have a notebook prepared in for you.

Phone 800-824-7303
Fax 979-458-1426
Information 979-845-6563



STUDENT REGISTRATION

ANNUAL SOUTHWEST ELECTRICAL METERING SCHOOL, OCTOBER 18-22, 2004

MAIL: TEPA Registrar
Engineering, Utilities and Public Works Training
Texas Engineering Extension Service
301 Tarrow
College Station, Texas 77840-7896

PHONE: 800-824-7303
FAX: 979-458-1426
INFORMATION: 979-845-6563

Please Print Clearly

PAYMENT INFORMATION

Advance registration is required. Payment must accompany registration. Make check, cashier's check or money order payable to Texas Engineering Extension Service.

Arrange payment by one of the following methods:

1. Check enclosed – (Please put course name and date on your check)
2. Purchase Order – (Copy of official company PO must be attached)
3. Credit Card
 - MasterCard VISA American Express Discover

Name on card _____

Acct # _____ Expires _____

Signature _____

If you select method #2, you will receive an invoice from TEEEX.

State law requires that you be informed of the following: (1) you are entitled to request to be informed about the information about yourself collected by use of this form (with a few exceptions as provided by law); (2) you are entitled to receive and review that information; and (3) you are entitled to have the information corrected at no charge to you.

FEES

School Participant - **\$165** (\$195 after 10/4/04)

SUPERVISOR'S NAME

Name _____

Title _____

Organization _____

Address _____

City/State/Zip _____

Telephone _____

STUDENT NAME (Print name to appear on certificate.)	SSN* #	COURSE #	FEE**
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

*Section 7(b) of the Privacy Act of 1974 (5 U.S.C. 552a) requires that when any federal, state or local government agency requests an individual to disclose his or her social security account number (SSN), that individual also must be advised whether that disclosure is mandatory or voluntary, by what statutory or other authority the number is solicited and what uses will be made of it. (Call 800-824-7303 for full privacy statement.)

**Unemployed retirees receive complimentary registration.)

TEEX is EEO compliant.

TOTAL FEE \$ _____

Refund/Cancellation Policy

NO refunds will be given for cancellations requested less than seven days before the first day of class. All refunds will be assessed a \$25 processing fee for courses priced under \$500 and a \$50 processing fee for courses priced above \$500. Should you have to cancel, you will be given the opportunity to transfer the registration fee in lieu of a refund. If we cancel a course, you will be given your choice of a full refund or transferring the course fee.

EXHIBITOR REGISTRATION

ANNUAL SOUTHWEST ELECTRICAL METERING SCHOOL, OCTOBER 18-22, 2004

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Texas Engineering Extension Service
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College Station, Texas 77840-7896

PHONE: 800-824-7303

FAX: 979-458-1426

INFORMATION: 979-845-6563

Please Print Clearly

Contact Name _____ Table Name _____

Title _____

Organization _____

Address _____

City/State/Zip _____

Attending exhibitors are responsible for the cost of the Exhibit Table **and** the registration fee for each table representatives. Please complete the form below and submit your payment with the registration.

MEMBERS REGISTRATION FEE: \$95 per person

TABLE REPRESENTATIVE	SSN* #	EXHIBIT SPACE \$65 PER TABLE <small>(please enter the number of tables you are requesting)</small>	MEMBER REGIS. FEE \$95	NOTEBOOK \$12.50 (OPTIONAL)
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____

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NON-MEMBERS REGISTRATION FEE: \$295 per person (*Note: Non-member registration fees should be mailed to SWEMA treasurer, Billy Peel. For detailed information visit the SWEMA website at <http://www.swema.org>.) All other fees, such as Exhibit Space and Notebooks should be listed above and are payable to TEEX.*

TOTAL (EXHIBIT SPACE + MEMBER + NOTEBOOK) \$ _____

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TEEX is EEO compliant. M-E-21 (0604)

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Non-Profit
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Texas 77840
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