

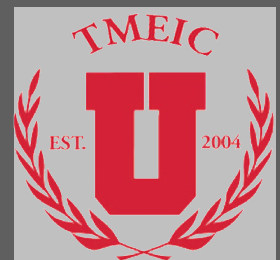
Medium Voltage Systems School

October 12-16, 2015

Roanoke, Virginia

A GREAT source of information on:

- *MV Power systems design concepts and criteria, including harmonic and power factor control, short circuit & load flow analysis, packaging & installation*
- *MV Power equipment in systems containing MV drives, including substations & switchgear, protective relaying, motor control, and transformers*
- *Medium Voltage [MV] Variable Frequency Drives [VFDs]*
- *MV induction and synchronous motors*
- *Drive and motor compatibility, and power quality*
- *Selection criteria for MV versus LV drives*
- *MV drive, Drive Tool and Remote Diagnostics Demos*
- *Practical "Application Stories" of drive and motor applications*



TMEiC
We drive industry

ACTUAL SCHEDULE IS SUBJECT TO CHANGE

Course Overview



The innovative TMEIC Medium Voltage Systems School is an information-packed 3 ½ day series of practical sessions covering the selection, specification, and application of industrial Medium Voltage Equipment. Project engineers, equipment specifiers and technicians will learn key application information for MV variable frequency AC drives, large motors, switchgear, protective relays and related MV power systems and distribution equipment. Instructors are TMEIC application engineers and industry experts with many years experience in MV drives, motors and systems applications in a wide variety of industries.

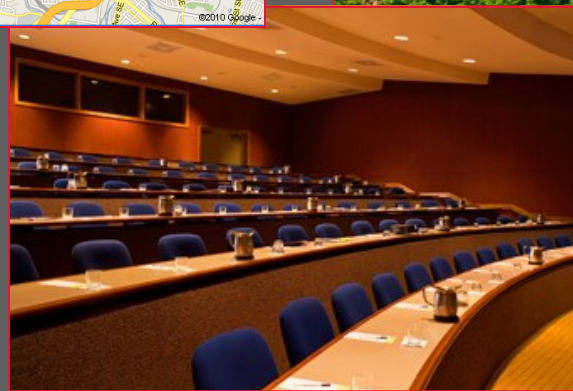
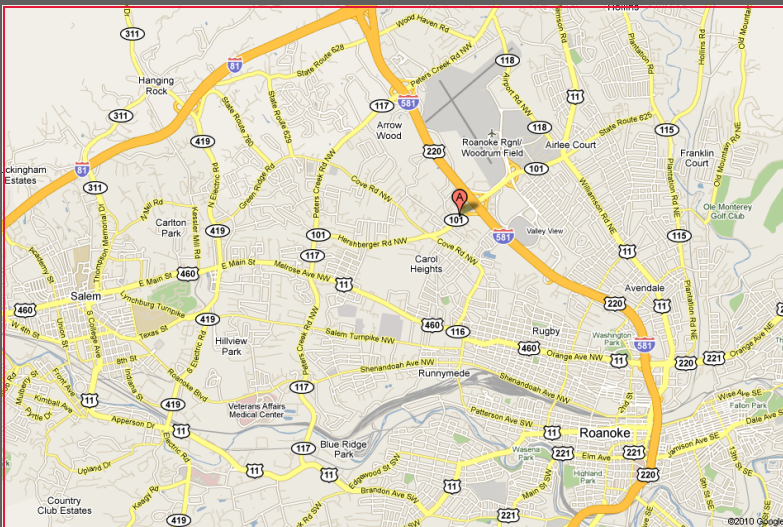
The focus for the week will be application topics for engineers and technicians. While related topics such as troubleshooting or maintenance issues may be addressed on an individual basis, these are not central to the curriculum.

In addition to classroom presentations, attendees are encouraged to bring their own real-world application issues for group discussion. Twenty Five [25] Professional Development Hours [PDH] will be documented for those interested in applying their participation to maintaining their professional accreditation [Note: TMEIC PDH credits have been widely accepted, but TMEIC not officially registered with any state board. Check your state[s] of registration to verify acceptability of professionally presented, documented industrial offered courses such as the MV School].

TMEIC Corporation
Roanoke, Virginia

Host Hotel

Sheraton Hotel & Conference Center
2801 Hershberger Road
Roanoke, Virginia 24017
Phone: (540) 563-9300, FAX: (540) 561-7910



Preliminary Course Agenda



MONDAY Oct 12, 2015

6:30 PM Early Bird Reception -
Sheraton Airport Hotel
[Room TBA]

TUESDAY Oct 13 2015

8:30 Welcome & Introduction
9:00 MV Overall Systems Representations
9:15 Power System Short Circuit &
Load Flow Analysis
11:15 MV Motor Control (MV Motor Starters)
12:00 Lunch
1:00 Application Story *
1:15 MV Switchgear
2:30 MV System Protection & Relaying Fundamentals
4:00 MV Substation Design & Spec Fundamentals
5:00 Adjourn
5:30 Social Hour - **Sheraton Airport Hotel**

WEDNESDAY Oct 14, 2015

8:30 MV Transformers & Reactors
10:00 VFD Fundamentals & Drive Evolution
11:15 Application Story *
11:30 MV Induction Motors
12:00 Class Photo & Lunch
12:45 MV Induction Motors [contd]
1:15 Break Out Sessions / Application Story*
3:15 MV Synchronous Motors
4:15 Application Story *
4:30 MV Drive VFD Motor Application
5:00 Adjourn
5:30 **Social Hour and Group Recreation**

THURSDAY Oct 15, 2015

8:30 Drive Application
9:30 Application Story *
10:00 Overview Constant Torque & Variable Torque
Applications & Examples
10:45 Application Story *
11:00 MV VFDs vs. RV Starters &
Mechanical VSDs
12:00 Lunch
12:45 Global Motor Standards and Applications
1:15 Break Out Sessions / Application Story*
3:15 MV Drive Energy Savings & Payback
Analysis
3:45 Application Story *
4:00 Effects of Drives on Power Systems
5:00 Adjourn
6:30 **Social Hour and Graduation Dinner**

Hidden Valley Country Club

FRIDAY Oct 16, 2015

8:30 Drive Operating Interfaces with
Plant Controls
9:00 Application Story *
9:15 MV Drive Specifications - practical
implications & benefits of various spec
requirements
10:00 Application Story *
10:15 MV Drive Specifications
10:45 Final Questions
11:00 Evaluation Forms
11:15 Final remarks and Adjourn

*Application stories are actual designs and solutions taken from key industries such as
Oil and Gas, Mining, Testing, Cement, Utility, Water-Wastewater and others.*

Final detailed agenda may vary

*Classes are taught by TMEIC applications engineers and industry experts who bring over
200 years of combined practical industry experience to their presentations.*

We Drive Industry



Registration Details

Hotel reservations should be made directly with Sheraton Hotel at 540-563-9300.

Ask for the **TMEIC Medium Voltage Systems School** room block — before Oct 9, 2015

Medium Voltage Systems School registration includes:

- Welcome Reception - Monday Evening
- Lunch - Tuesday, Wednesday and Thursday.
- Dinner - Thursday night (Graduation Dinner, coat/tie optional)
- Social Hour—Monday, Tuesday and Wednesday evenings
- Paper copy and/or CD copy of class presentations.

Tuition for the 3 1/2 day school is FREE to qualified participants but registration space is limited

Participants are responsible for travel and lodging expenses



Best Conference Registration Method:

Use the interactive eventbrite.com registration site. (<http://tinyurl.com/TMEICRoanokeMVSchool2015>)

Manual Registration Form — Medium Voltage Systems School – October 12-16, 2015

Mail To: Beverly Reynolds
TMEIC Corporation
2060 Cook Drive
Salem, Virginia, USA 24153

Email/Fax To: Beverly.Reynolds@tmeic.com
Phone: (540) 283-2004
Fax: (540) 283-2005

Name _____
(First) (MI) (Last)

Company Name _____

Street Address _____

City _____ State/Province _____ Postal Code _____ Country _____

Job Title _____ Industry _____

Telephone _____ Fax _____

Email address _____

What areas of specific interest would you like to have discussed? _____

Instructional and reference material will be provided as part of the school on CDROM along with a high-quality reference note-taking book.



TMEIC Corporation
www.tmeic.com Phone: +1-540-283-2000