

Medium Voltage Systems School

October 13-17 2014 Roanoke, Virginia

A GREAT source of information on:

- Medium Voltage [MV] Variable Frequency Drives [VFDs]
- MV induction and synchronous motors
- MV drive and motor compatibility, and power quality
- Selection criteria for MV versus LV drives
- MV drive lab session
- 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.



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 trouble-shooting or maintenance issues may be addressed on an individual basis, these are not central to the curriculum.

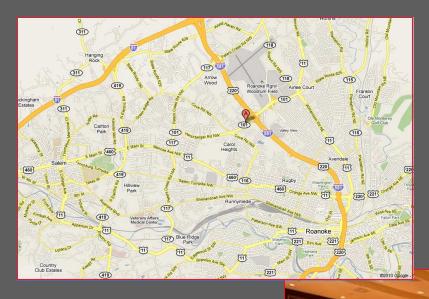
In addition to classroom presentations, attendees are encouraged to bring their own real-world application issues for group discussion. Twenty Five [25] Professional Development Hours [PDH] will be documented for those interested in applying their participation to maintaining their professional accreditation.

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 0-4 40 0044					
MONDAY Oct. 13, 2014			THURSDAY Oct. 16, 2014		
6:30 PM Early Bird Reception -		8:30	Drive Application		
	Sheraton Airport Hotel [Room TBA]		Application Story *		
	•	10:00	Overview Constant Torque & Variable Torque Applications & Examples		
0.00	TUESDAY Oct. 14 2014	10:45	Application Story *		
8:30	Welcome & Introduction	11:00	MV VFDs vs. RV Starters &		
9:00	MV Overall Systems Representations		Mechanical VSDs		
9:15	Power System Short Circuit & Load Flow Analysis	12:00	Lunch		
11:15	MV Motor Control (MV Motor Starters)	12:45 1:15			
12:00	Lunch		Break Out Sessions / Application Story*		
1:00	Application Story *	3:15	MV Drive Energy Savings & Payback Analysis		
1:15	MV Switchgear	3:45	Application Story *		
2:30	MV System Protection & Relaying Fundamentals	4:00	Effects of Drives on Power Systems		
4:00	MV Substation Design & Spec Fundamentals	5:00	Adjourn		
5:00	Adjourn	6:30	Social Hour and Graduation Dinner		
5:30	Social Hour - Sheraton Airport Hotel		History Vallace Occuptors Olich		
	WEDNESDAY Ook 45 2044		Hidden Valley Country Club		
0.00	WEDNESDAY Oct. 15, 2014		FRIDAY Oct. 17, 2014		
8:30	MV Transformers & Reactors	8:30	Drive Operating Interfaces with		
10:00	VFD Fundamentals & Drive Evolution		Plant Controls		
11:15 11:30	Application Story * MV Induction Motors	9:00	Application Story *		
12:00	Class Photo & Lunch	9:15	MV Drive Specifications - practical implications & benefits of various spec		
12:45	MV Induction Motors [contd]	10:00	requirements Application Story *		
1:15 3:15	Break Out Sessions / Application Story*	10:00	• • • • • • • • • • • • • • • • • • • •		
	MV Synchronous Motors	10:15	MV Drive Specifications Final Questions		
4:15 4:30	Application Story *	11:00			
	MV Drive VFD Motor Application	11:15			
5:00	Adjourn	11.13	Final remarks and Adjourn		
5:30	Social Hour and Group Recreation				

^{*} 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 09, 2014 **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; registration space is limited
- Participants are responsible for travel and lodging expenses



Registration Form - Medium Voltage Systems School - October 13-17, 2014

Salutation:					
First Name:		M.I.:	_ Last Name	:	
Company Nam	e:			_	
Street Address	:			_	
City:	State:	Zip or Pos	t Code:	Country:	
Business <u>Title:</u>				_	
Email Address:				_	
Telephone: Fax Num		lumber:		_	
O M 114	0. 5. (11/5. 1	. "			
Or Mail to:	Sue Porterfield (Email: sue TMEIC Corporation 2060 Cook Drive Salem, Virginia, USA 24153 Phone: (540) 283-2004; FAX: (540) 283-2005		eic.com)		

Instructional and reference material will be provided as part of the school. Materials will be provided on CDROM.



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