

Paper Mill Engineer's School

October 10—14, 2011

Roanoke, Virginia

"This class is designed for the paper mill engineer who needs to understand the how and why of drive selection, control and electrical power requirements.

Needless to say, I think this class is a worthwhile venture. I found it very informative and entertaining. Any one who really wants a solid grounding in drive applications specific to the paper industry, please consider this class."

– Student, October 2003 Class



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

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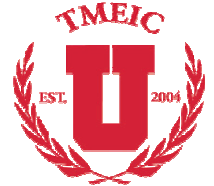
Course Overview

Learn about the extensive technical expertise available to customers from the Drive System Application Engineers at this innovative Paper Mill Engineering School. Taught by Paper Mill Application Engineers, the school presents technical information in a generic manner. Instructors are application engineers that have over 30 years experience in the paper industry.

Primarily, the attendees are engineers and technicians from pulp and paper mills or corporate engineering headquarters. Maintenance issues are addressed on an individual basis.

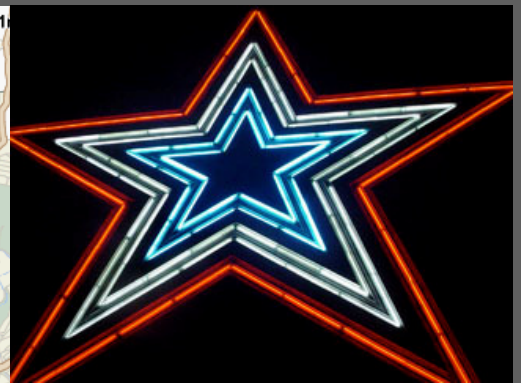
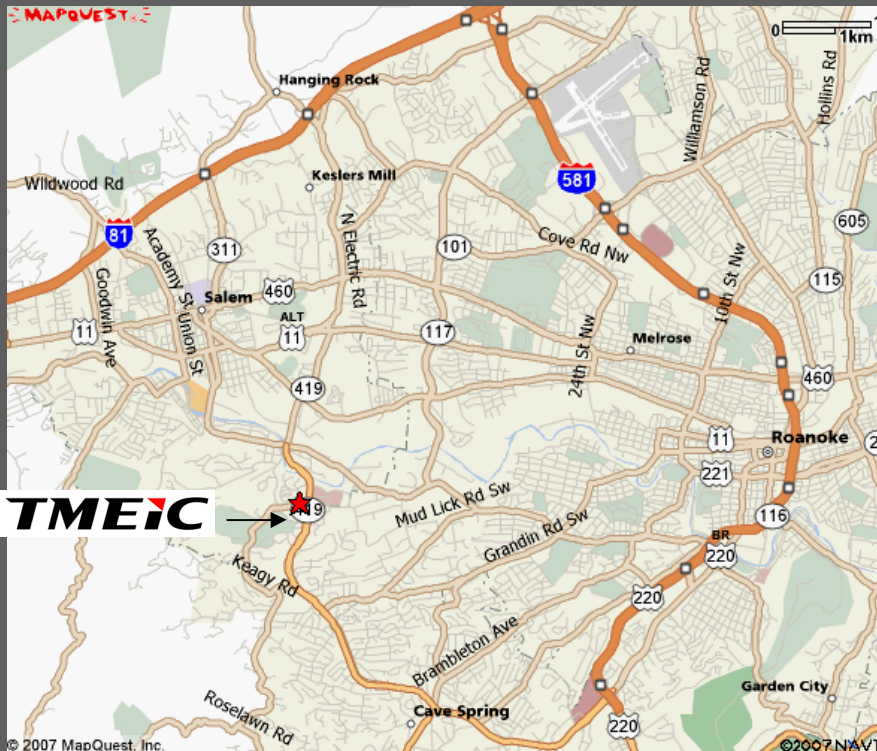
Over the past 27 years of Paper Schools, there have been **1400 customer graduates world-wide.**

**TMEIC Corporation
Paper Mill Engineers School
Roanoke, Virginia**



Host Hotel

Comfort Suites Inn at Ridgewood Farms
2898 Keagy Road
Salem, Virginia 24153
Phone: (540) 375-4800, Toll Free: (800) 628-1922, FAX: (540) 302-0097



Course Agenda

SUNDAY October 9, 2011

7:00 PM
Early Bird Reception at the Hotel hospitality room.

MONDAY Oct. 10, 2011

8:00 AM Arrive TMEIC facility
8:15 Welcome
8:30 Drive System Organization
8:40 Paper Mill System Overview
9:20 Review of Existing Paper Machine
10:35 AC/DC Motor Selection

- Approximate Power Selection
- Speed Selection
- Gear Ratio Selection
 - Direct vs Gear Drives

11:05 AC Motor Applications
AC Motor Cabling
12:00 Lunch provided
1:00 AC Motor Applications
AC Motor Cabling (continued)
2:25 AC/DC Motor Applications

- Overloads
- Service Factor
- Enclosures and Ventilation
- Digital Tachometers

3:30 Power Converters for System Drives

- Calculations
- Applications

5:00 End
- Social Hour In the hospitality room

TUESDAY Oct. 11, 2011

8:00 AM Arrive TMEIC facility
8:15 DC Motor and Generator Fundamentals
9:40 DC Motor Maintenance/Troubleshooting
11:10 Regulator Applications
12:00 Lunch provided
1:00 Drive System Architecture
1:45 Process Control Interface
2:25 Operator Interface
3:15 Upgrading the Paper Machine
5:00 End
- Social Hour In the hospitality room

WEDNESDAY Oct. 12, 2011

8:00 AM Arrive TMEIC facility
8:15 AC Feeders

- Transformer Selection
- System Grounding
- Ground Detection

10:00 Power System Studies

- Harmonics / Capacitor Applications

10:45 Arc Flash Introduction
11:30 Drive Summary for Paper Machine
12:00 Lunch provided
1:00 Drive Summary for Paper Machine (continued)
1:30 Paper Machine Power Calculations

- TAPPI Constants
- Measured Data

3:00 TMEIC Tour plus Drive System Demonstration
5:00 End
- Social Hour In the hospitality room

THURSDAY Oct. 13, 2011

8:00 AM Arrive TMEIC facility
8:15 Drive Disturbance Analysis
9:30 Drive Summary for Winder
11:00 Winder Power Calculations

- TAPPI/Other

12:00 Lunch provided
1:00 Winder Analysis
2:15 Drive Summary for Off-Machine Coater
3:15 Drive Summary for Supercalendar
4:15 End
TBA **Graduation Dinner**

FRIDAY Oct. 14, 2011

8:00 AM Arrive TMEIC facility
8:15 AC Drives, Medium Voltage

- Medium Voltage Drive Evolution
- Dura-Bilt 5i MV

10:00 PM Auxiliary Drives
11:00 - 11:15 Wrap Up / End

(agenda timing is subject to change)

Our classes are led by experienced Paper Mill Application Engineers:

Walt Jones - 40 years of experience

Dean Parker - 23 years of experience

Darren Honaker - 19 years of experience.

TMEiC
We drive industry

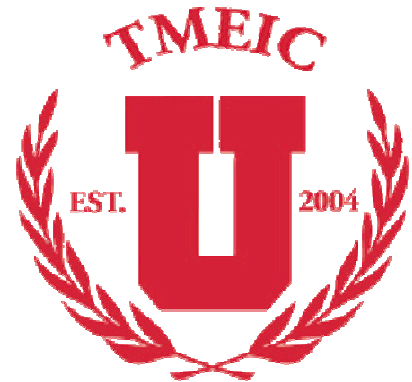
Registration Details

Contact Comfort Suites directly to reserve your room (ph 540 375-4800)

Ask for the TMEIC Paper Mill School room block.

Paper Mill Engineers School registration includes:

- Welcome Reception - Sunday Evening at 7 PM
- Lunch - Monday, Tuesday, Wednesday and Thursday.
- Graduation Dinner - Thursday night (coat/tie optional)
- Social Hour—Monday, Tuesday and Wednesday evenings
- Paper copy and/or CD copy of class presentations.
- Tuition for the 4 1/2 day school (Tuition is FREE)



Classes will be held at the TMEIC office location

1325 Electric Road, Roanoke, VA 24018

(a short walk from the hotel)

Registration Form — Paper Mill School – October 10 - 14, 2011

This registration form is also available on our website: www.tmeic.com

Mailing Address To: Sue Porterfield
TMEIC Corporation
2060 Cook Drive, Suite 200
Salem, Virginia, USA 24153

Email To: Sue.Porterfield@tmeic.com
Phone: (540) 283-2004
Fax: (540) 283-2005

Name _____
(First) (MI) (Last)

Company Name _____

Street Address _____

City _____ State/Province _____ Postal Code _____ Country _____

Business Title _____

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. To serve you better and to minimize waste, please indicate below which media you prefer:

- Material on CDROM only. Material in 3 ring binder only. Material on CDROM & binder



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