



Medium Voltage Motors & ASD Systems School



Course Overview

Medium voltage ASDs (MV Adjustable Speed Drives) and motors are widely applied to plant rotating machinery like compressors, pumps, fans, extruders, mills, kilns, etc., ranging from a few horsepower (HP) to tens of thousands of horsepower. Safe, reliable and successful application of these ASDs and motors require a system level approach.

The TMEiC Medium Voltage Systems School is an information-packed one-day series of practical sessions covering the selection, specification, and application of industrial MV equipment. Project engineers, equipment specifiers and technical stake holders will learn key application concepts for MV large motors, adjustable speed AC drives, and related MV power systems and distribution equipment that support the motor and drive installation. Instructors are TMEiC application engineers and industry experts with many years' experience in MV drives, motors and integrated system applications in various industries.

The focus for the course will be application topics that can be used right away to specify, evaluate, procure and install a successful MV motor and drive system. The dimensions of the course will be medium voltage (>2.3kV) and motor power ranging from 500 HP thru 100,000 HP. In addition to classroom presentations, attendees are encouraged to bring their own real-world application issues for group discussion. Five (5) Professional Development Hours [PDH] will be documented for those interested in applying their participation to maintaining their professional accreditation.

Preliminary Agenda

Time	Topic
7:45-8:30 am	Light Breakfast
8:30-8:45 am	Safety Moment, Group Introductions, TMEiC Overview
8:45-11:30 am	Medium Voltage Induction & Synchronous Motors <ul style="list-style-type: none"> - Motor basics & terminology - Motor standards and third party approvals - Application in hazardous locations & testing - Q & A <ul style="list-style-type: none"> - Enclosures - Options/accessories - Induction vs. synchronous motors
11:30 am-1:00 pm	Lunch and TMEiC TMdrive-MVe2 VFD/TM21-G Motor Product Launch Event
1:00-4:30 pm	Medium Voltage adjustable speed drives (ASD) <ul style="list-style-type: none"> - Basic electrical circuits, nomenclature, terminology - ASD Fundamentals, how it works, & benefits - Tips for integrating ASDs in an electrical building - Applying ASDs & motors as a single package - ASD application overview, protection cooling methods and specifications <ul style="list-style-type: none"> - Starting large electric motors - Using ASDs for starting large motors - Cables and grounding - Specifying ASDs - Q & A
4:30-5:00 pm	Optional ASD or motor related topics as requested by the class.
5:00 pm	School adjourns

Location, Date, and Registration

Thursday, April 7, 2016
 Edmonds Room • Radisson Hotel Edmonton South
 4440 Gateway Blvd • Edmonton, AB T6H 5C2 • 780-437-6010

Registration is required

Register online: www.tinyurl.com/Edmonton-TMEiC-MV

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TMEIC

Driving industry forward
Experience better reliability

...By design.

YOU ARE CORDIALLY INVITED TO OUR
PRODUCT LAUNCH LUNCHEON
INTRODUCING:



TMdrive-MVe2 Medium Voltage Variable Frequency Drive

- *Air-cooled*
- *Up to 5,000 HP (5,000 kW)*
- *Regenerative energy saving drive*
- *Designed for the most demanding applications*
- *Line side & load side friendly - ideally suited for new & retrofit applications*



TM21-G Motor

- *Up to 30,800 HP (23,000 kW)*
- *2300 V to 11,000 V*
- *Horizontal or vertical mount*
- *High Efficiency*
- *Compact Footprint*

11:30 a.m. – 1:00 p.m.

Product tour

Meet technical experts

Location, Date, and Registration

Thursday, April 7, 2016

Palm Room • Radisson Hotel Edmonton South

4440 Gateway Blvd • Edmonton, AB T6H 5C2 • 780-437-6010

Registration is required

Register online: www.tinyurl.com/Edmonton-TMEIC-MV