

Energizing People → Powering the Future



Remote & basic part – 5 x 0.5 day

Remote training using Teams & 360° views Applications: SD7000/MV7000/MV3000

Learning objective and performance outcome:

Upon completion of this course, the participants will be able to:

- Understand power & control architecture of their system;
- Understand technology used aboard (network and machines bridges/excitation/automation & control/drive sequences);
- Understand & practice maintenance operations for control system main components (part replacement & configuration);
- Identify all components used on the converter & automation –the components will be presented using an HD webcam and 360° views.

FEATURES

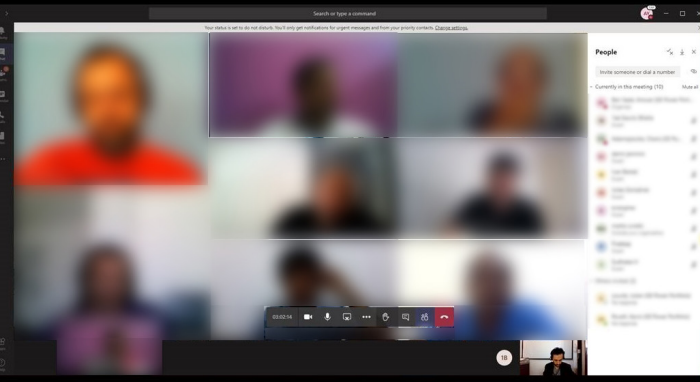
MICROSOFT TEAMS

- Access to 360° views* of the electrical system remotely
- Webcams with all the participants
- Webcam with the training officer
- Whiteboards
- Polls
- Interactive quizz
- Question & Answers through Slido

**Subject to availability*

Course content:

1. Electrotechnical theoretical reminders (transformer/rotating machines/drive);
2. Variable Frequency Drive operating principles (main components, control interfaces);
3. Control network architecture (communication principles, hardware/software description);
4. Drive control & process automation principles:
 - Software – System functions & application
 - Hardware – Configuration
 - General maintenance
5. Motor principles:
 - Rotor/stator principles
 - Auxiliaries
 - General maintenance
6. Remote description of the automation procedures:
 - Replacement of remote IO modules and control panels (IP programming)
 - Replacement of network switches
 - Application reloading (P80i software)



GE | POWER CONVERSION

Converter

Working principle

- Rectifier
- DC Bus and accessories
- Inverter
- Composition

Control & Auxiliaries

- Control interfaces
- Related Faults
- Auxiliaries**

Remote Training Officer's desktop

06/03/2020 16:45:12

05/29/2020 16:05:56

05/29/2020 16:05:59

DOMAIN	FUNCTION	SEVERITY	TRANSITION	ALARMS	ACK PAGE	ACK SEL.	PRE-INT.	
ALL	TESTER	ALL	ALL					
DATE	TIME	SAN	DOMAIN	FUNCTION	TAG	WORDING	SEV	TRANSITION
05/29/20	16:05:56	03286	PORT	LUBRICAT	JkNOIIP	NDE Bearing oil pressure measure Sens.Fit	NC	ACK_ON
05/29/20	16:05:56	03231	PORT	LUBRICAT	LubPp1	DE Lub. Pump 1 Elec.Fit	NC	ACK_ON
05/29/20	16:05:56	03201	PORT	LUBRICAT	JkNDPp1	DE Jacking Pump 1 Elec.Fit	NC	ACK_ON
05/29/20	16:05:56	03233	PORT	LUBRICAT	LubPp2	DE Lub. Pump 2 Elec.Fit	NC	ACK_ON
05/29/20	16:05:56	03237	PORT	LUBRICAT	LubCR	Lubrication Critical Fit	NC	ACK_ON
05/29/20	16:05:56	03222	PORT	LUBRICAT	JkCN_CR	NDE Jacking Critical Fit	C	ACK_ON
05/29/20	16:05:56	03207	PORT	LUBRICAT	JkAD_CR	DE Jacking Critical Fit	C	NO_ACK_ON
05/29/20	16:05:56	03281	PORT	LUBRICAT	JkDOIIP	DE Bearing oil pressure measure Sens.Fit	NC	ACK_ON
05/29/20	16:05:56	03218	PORT	LUBRICAT	JkNDPp2	NDE Jacking Pump 2 Elec.Fit	NC	ACK_ON
05/29/20	16:05:56	03228	PORT	LUBRICAT	LubNC	Lubrication Non Critical Fit	NC	ACK_ON
05/29/20	16:05:56	03216	PORT	LUBRICAT	JkNpp1	NDE Jacking Pump 1 Elec.Fit	NC	ACK_ON
05/29/20	16:05:56	03223	PORT	LUBRICAT	JkCN_NC	NDE Jacking Non Critical Fit	NC	ACK_ON
05/29/20	16:05:56	03206	PORT	LUBRICAT	JkAD_NC	DE Jacking Non Critical Fit	NC	ACK_ON
05/29/20	16:05:56	03205	PORT	LUBRICAT	JkNDPp2	DE Jacking Pump 2 Elec.Fit	NC	ACK_ON

Remote HMI

Speed 0 rpm Power 0 kW

Ref 0 rpm from ECR

Torque 0% Limit by Prop Limit by P.L.S. 100% Aux ON Torque ?% Limit by Prop Limit by P.L.S. ?%



Control cubicle 360° view

CREW TRAINING

Crew training is essential for:

- Optimizing the performance of your teams;
- Reducing propulsion downtime;
- Increasing safety operation;
- Making the dialog with our remote support experts efficient.

This is why we have developed the remote training for our power drives used in marine, where the participants will **learn how to operate, maintain and troubleshoot the system** with the best instruction method using the 360° views.

25+ YEARS OF EXPERTISE

In our certified training centers, we propose general or specific training courses

These training sessions allow trainees to acquire or refresh their knowledge of electric propulsion, on hardware or software used on vessels fitted with GE Power Conversion drives.

Our experts for training, recognized for their skills within GE Power Conversion, can make you benefit from their know-how, ceaselessly improved by their experience on the ground. They can give you theoretical and practical training in the various fields of our activity, on our workstations in the secure environment of our center, or even on your own equipment. We benefit from more than 25 years of operational experience in electric propulsion.

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