



Energizing People

Powering the Future



Complementary training module - 1 day

Troubleshooting on Control & Automation

Applications: PEC M3/AMC/B&R/RXi/PIBe/RX3i

Learning objective and performance outcome:

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

- Understand how to troubleshoot the Electrical Propulsion System using a simulator bench tailored to the hardware and software installed on board;
- Understand the component functions;
- Troubleshoot and replace corresponding components;
- Restart quickly the propulsion and retrieve vessel capability.

Course content:

Understand the function of the Control & Automation components:

- Process & Control CPUs;
- Firing boards;
- Measurement acquisition boards;
- I/O racks;
- Human Machine Interface (HMI);
- Laptop & diagnostic computer;
- Fault matrix categorization & explanation;
- Automation architecture.

Replacement and configuration of the Control & Automation components:

- Real case scenarios of component failures (understand the alarms and adapt the troubleshooting steps);
- IP addressing;
- Software/Firmware loading.



PECe Automation (B&R and RXi)



Low voltage components



Practical exercises with computers

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.

Therefore, we have developed the practically oriented training options 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: practical exercises using the right tools.

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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GEA34221 Rev1 (09/2021)