



# Variable Speed Drives – Control & Automation (PECe) Troubleshooting

Application: PEC  
M3/AMC/B&R/RXi/PECe/RX3i

## Purpose

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

## Target audience

- Operators, management, maintenance and engineering personnel.

## Pre-requisites

- Basic training recommended
- Basic electrical and computer knowledge
- P80i knowledge is recommended

## Content

- 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 C&A components
- Real case scenarios of component failures (understand alarms and adopt troubleshooting steps)
- IP addressing
- Software/Firmware loading



**Duration: 1 day (7 hours )**

**Practical Exercises: 100%**

- Know and program P80i/HPCi
- Learn how to operate, maintain and troubleshoot system
- Program and configuration of different automation parts.

## Training Equipment

- Use of control & automation cabinet
- Use of maintenance computer
- Use of dedicated tools.

## Assessment

- Quiz
- Practical exercises.

## Trainee's Documentation

- Specific customer documentation
- Customized training material
- Certificate of attendance

**Location:** France – Belfort

Training Code	EN C&A Physical
Max number of trainees	6
Price	Contact us