



Training Schedule 2020

MAN PrimeServ

MAN PrimeServ Academy
Piraeus

PrimeServ Academy Piraeus

Customer Training



Our vision

Through training by our PrimeServ Academies, we sustain your competitive advantage by ensuring maximum capacity and availability of your plant and machinery.

Our offer

Participants enjoy optimal conditions in the intervals between learning content

Training is key to success. In PrimeServ Academy Piraeus both customer personnel and our own staff receive up to date training and transfer of knowledge that only an OEM can provide.

In addition, the MAN PrimeServ network promotes a constant and direct transfer of knowledge among customers, suppliers and our research and development teams. This helps us to continuously increase our market orientation and our customers' satisfaction. The PrimeServ Academy Piraeus is part of the aftersales business unit (MAN PrimeServ) of MAN Energy Solutions.

Within PrimeServ Academy Piraeus, a wide range of comprehensive training courses for technical managers, operation and maintenance personnel of marine and stationary plants takes place.

Taking into consideration that it is a strategic target of our company, we strongly believe that the best satisfaction of our products can be achieved only if the technical personnel of our customers are well trained. Qualified staff in the disciplines of operation, maintenance and troubleshooting has bold benefits. It assures high quality and safety, speedy performance of technical services keeping downtime and non-availability at the lowest possible level.

It goes without saying that Health and Safety is at the heart of everything we do and included in every course we offer.

Training is our product, qualification is our mission

Our MAN PrimeServ Academy Piraeus generally serves three purposes:

1. To train our customers' personnel in both Operation and Maintenance processes
2. To continuously develop our own employees to ensure they can provide the level of service our customers both expect and deserve
3. To promote our industry to the next generation, working with schools, colleges and universities to create a sustainable industry

Customer Training 2020

Courses offered



Update

Training seminar quality has highest priority at the MAN PrimeServ Academies. The trainers continuously acquire further qualifications

Secure

- your equipment
 - efficiency
 - reliability
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MAN PrimeServ Academy's training service is a valuable investment for your business. It improves the skills, productivity, and safety of your employees and enhances the performance of your engines by making them run longer, more efficiently, and more reliable.

PrimeServ Academy Piraeus offers training on:

- ME-C control system standard operation
- ME-B control system standard operation
- ME-C electrician standard maintenance
- ME-C and MC engine standard optimization
- L23/30H & L28/32H GenSet engine standard operation
- L16/24 engine standard operation
- NA/TCA/TCR turbocharger standard maintenance
- Customized training according to needs

ME-C control system standard operation

Learning goals

Upon completion of this course the participants will be able to safely and efficiently operate the ME-C engine. In addition, they will also understand how to troubleshoot and perform adjustments to the control system.

Target group

This training is aimed at ship engineers, technical superintendents and electricians

Prerequisites

The participants should have basic knowledge of the two-stroke diesel engine

Duration

5 days

Course level

Standard

Activity level

Operation

Applies to equipment

ME-C

Course content

- Introduction to the ME-C engine
- ME-C concept
- Engine control system
- Operation
- Replacement of Multi Purpose Controller (MPC) modules
- Troubleshooting
- Hydraulic Cylinder Unit (HCU)
- Hydraulic Power Supply (HPS)
- PMI and CoCoS EDS systems

Special notes

This course is designed specifically for engineers attending a vessel equipped with an ME-C engine.

ME-B control system standard operation**Learning goals**

Upon completion of this course the participants will be able to understand and operate the ME-B engine. In addition, they will also gain knowledge covering the Hydraulic Power Supply (HPS) and Hydraulic Cylinder Unit (HCU).

Furthermore, they will gain knowledge covering fuel and exhaust and the performance system.

Target group

This training is aimed at ship engineers, technical superintendents, and electricians

Prerequisites

The participants should have basic knowledge of the two-stroke diesel engine.

Duration

4 days

Course level

Standard

Activity level

Operation

Applies to equipment

ME-B

Course content

- Introduction to the ME-B
- Engine control system
- Engine operation and exercises using a simulator

- HPS
- HCU
- Replacement of the Multi Purpose Controller (MPC)
- Troubleshooting
- Performance measurement and monitoring system

Special notes

This course is designed specifically for engineers onboard a vessel equipped with an ME-B engine.

ME-C electrician standard maintenance**Learning goals**

Upon completion of this course the participants will be able to perform correct maintenance and repair procedures on the engine control system and relevant engine components. In addition, the ECS system and applying correct troubleshooting procedures via the main operating panel will also be included.

Target group

This training is aimed at ship engineers, technical superintendents and electricians.

Prerequisites

The participants should have basic knowledge of electrical troubleshooting and understand basic two-stroke engine operating principles.

Duration

4 days

Course level

Standard

Activity level

Maintenance

Applies to equipment

ME-B, ME-C, ME-GI

Course content

- General ME-C engine knowledge
- ECS troubleshooting
- Cabling and signals
- Power supply
- Electrical signals
- Electrical noise awareness
- Engine Control System (ECS)
- Production specification
- Practical exercises

ME-C and MC engine standard optimization**Learning goals**

Upon completion of this course the participants will understand the principles of the engine fuel and oil system. In addition, the participants will be able to evaluate the performance of a two-stroke engine and understand the effect of different injector positions.

Target group

The training is aimed at ship engineers and technical superintendents

Prerequisites

The participants should have experience with two-stroke diesel engines

Duration

5 days

Course level

Standard

Activity level

Optimization

Applies to equipment

MC, MC-C, ME-B, ME-C, ME-GI

Course content

- Fuel treatment and injection system
- Cylinder lubrication
- Cylinder condition
- Engine performance analysis
- System lubrication
- Low load operation

Special notes

This course can be offered in combination with a practical course named “ME-C and MC engine practical maintenance” with a duration of 10 days. These courses have a high cost reduction potential.

L23/30H & L28/32H GenSet engine standard operation**Learning goals**

Upon completion of this course the participants will have basic knowledge of the engine types. In addition, they will also have a basic understanding of operating the engine safely according to the instruction manual. Furthermore, the participants will have a clear understanding of adjusting the engine and maintenance of the engine parts.

Target group

This training is aimed at all personnel working with Holeby GenSet.

Prerequisites

The participants should have basic theoretical knowledge of four-stroke internal combustion engines.

Duration

5 days

Course level

Standard

Activity level

Operation

Applies to equipment

L23/30H & predecessors, L28/32H & predecessors, V28/32S

Course content

- Engine design and data
- Handling manuals
- Fluid systems on engine and requirements
- Engine and turbocharger operation
- Hydraulic tensioning tools and elongation

- Engine parts overhaul, inspection & maintenance
- Fuel equipment maintenance
- Safety and control system on engine
- Performance and optimization

Special notes

This course is a combined theoretical and practical training course, with 40 % practical training.

L16/24 engine standard operation**Learning goals**

Upon completion of this course the participants will be able to perform engine starting, stopping, and operating procedures under normal conditions. In addition, they will also be able to identify and analyze the engine's normal and abnormal operating parameters. Furthermore, they will understand the maintenance intervals and correct maintenance procedures.

Target group

This training is aimed at all personnel working with a Holeby GenSet.

Prerequisites

The participants should have basic theoretical knowledge of four-stroke internal combustion engines.

Duration

5 days

Course level

Standard

Activity level

Operation

Applies to equipment

L16/24

Course content

- Engine design and data
- Handling manuals
- Systems on the engine
- Engine and turbocharger operation
- Introduction to engine control and governor system
- Monitoring parameters and alarms
- Troubleshooting

Special notes

This course is a combined theoretical and practical training course, with 70 % practical training.

NA/TCA/TCR turbocharger standard maintenance**Learning goals**

Upon completion of this course the participants will be able to name and identify parts from TCA and NA/S turbochargers. In addition, they will receive the latest customer information and service information letters. Furthermore, they will be able to evaluate all relevant wear parts and perform maintenance according to the operating manual.

Target group

This training is aimed at ship or power plant managers, engineers and superintendents.

Prerequisites

The participants should have basic knowledge of engines and mechanics.

Duration

4 days à 5 days (2 days TCA, 2 days NA, 1 day TCR)

Course level

Standard

Activity level

Maintenance

Applies to equipment

NA, TCA/TCR

Course content

- Turbocharger basics
- Turbocharger TCA and TCR theory
- TCR16 turbocharger practice
- TCR16 cartridge maintenance
- TCA turbocharger practice
- TCA and NA/S PrimeServ customer information
- Turbocharger NA/S theory
- NA/S turbocharger practice
- Hydraulic tensioning tools

Customized courses

Upon request, a proposal is created with a detailed course program tailored to your needs. Contact us in regards to specific training needs on particular equipment. These courses are delivered on-board vessels, at customer's premises, or within Primeserv Academy Piraeus.

Course dates 2020

ME-C control system standard operation

January 13 - 17, 2020	P-20-001
January 20 - 24, 2020	P-20-002
January 27 - 31, 2020	P-20-003
February 3 - 7, 2020	P-20-004
February 10 - 14, 2020	P-20-005
February 17 - 21, 2020	P-20-006
February 24 - 28, 2020	P-20-007
March 9 - 13, 2020	P-20-008
March 16 - 20, 2020	P-20-009
March 30 - April 3, 2020	P-20-010
April 6 - 10, 2020	P-20-011
May 4 - 8, 2020	P-20-012
May 11 - 15, 2020	P-20-013
May 18 - 22, 2020	P-20-014
May 25 - 29, 2020	P-20-015
June 1 - 5, 2020	P-20-016
June 15 - 19, 2020	P-20-017
June 22 - 26, 2020	P-20-018
June 29 - July 3, 2020	P-20-019
July 6 - 10, 2020	P-20-020
July 13 - 17, 2020	P-20-021
July 20 - 24, 2020	P-20-022
July 27 - 31, 2020	P-20-023
August 31 - September 4, 2020	P-20-024
September 7 - 11, 2020	P-20-025
September 14 - 18, 2020	P-20-026
September 21 - 25, 2020	P-20-027
September 28 - October 2, 2020	P-20-028
October 5 - 9, 2020	P-20-029
October 12 - 16, 2020	P-20-030

ME-C control system standard operation

October 19 - 23, 2020	P-20-031
November 2 - 6, 2020	P-20-032
November 9 - 13, 2020	P-20-033
November 16 - 20, 2020	P-20-034
November 23 - 27, 2020	P-20-035
November 30 - December 4, 2020	P-20-036
December 7 - 11, 2020	P-20-037
December 14 - 18, 2020	P-20-038

ME-B control system standard operation

January 7 - 10, 2020	P-20-039
January 27 - 30, 2020	P-20-040
March 9 - 12, 2020	P-20-041
April 6 - 9, 2020	P-20-042
May 4 - 7, 2020	P-20-043
June 1 - 4, 2020	P-20-044
July 6 - 9, 2020	P-20-045
September 7 - 10, 2020	P-20-046
October 5 - 8, 2020	P-20-047
November 2 - 5, 2020	P-20-048
November 30 - December 3, 2020	P-20-049

ME-C electrician standard maintenance

January 13 - 16, 2020	P-20-050
February 3 - 6, 2020	P-20-051
April 6 - 9, 2020	P-20-052
May 11 - 14, 2020	P-20-053
July 13 - 16, 2020	P-20-054
September 14 - 17, 2020	P-20-055
October 12 - 15, 2020	P-20-056

ME-C electrician standard maintenance

November 9 - 12, 2020	P-20-057
December 7 - 10, 2020	P-20-058

ME-C and MC engine standard optimization

September 28 - October 2, 2020	P-20-059
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L23/30H & L28/32H GenSet engine standard operation

March 9 - 13, 2020	P-20-060
June 1 - 5, 2020	P-20-061
September 7 - 11, 2020	P-20-062
November 30 - December 4, 2020	P-20-063

L16/24 engine standard operation

May 11 - 15, 2020	P-20-064
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NA/TCA/TCR turbocharger standard maintenance

January 13 - 17, 2020	P-20-065/066
March 16 - 20, 2020	P-20-067/068
May 18 - 22, 2020	P-20-069/070
July 20 - 24, 2020	P-20-071/072
October 19 - 23, 2020	P-20-073/074
December 14 - 18, 2020	P-20-075/076

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