

## **NMEA Installer Training in Seattle WA: April 2-5!**

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### **When:**

Tuesday, April 2nd - Basic Marine Electronics Installer (MEI)

Wednesday, April 3rd - Basic NMEA2000® Network Installer

Thursday, April 4th - Advanced Marine Electronics Installer (AMEI)

Friday, April 5th - Advanced NMEA2000® Network Installer

### **Where:**

Northwest Marine Trades Building

1900 N. Northlake Way, #233,

Seattle, WA 98103

Trainer - Johnny Lindstrom, Westport Yachts

All courses run from 8:00 a.m. until 5:00 p.m. with lunch included and an exam at the end of each session.

### **Basic Marine Electronics Installer (MEI) -**

This class will present the newcomer to marine electronics with the basic information to get started installing typical modern systems. The program will explain Ohms Law, Grounds, Batteries & Battery Chargers, DC Wiring, EMI Basics, Coaxial Cables, Antennas, NMEA Data Interfacing, Marine VHF Radios, AIS, Displays, Transducers, Radar, Heading Sensors.

### **Basic NMEA 2000 Network Installer -**

This course covers the following topics: Cables, Connectors, Specifications Physical Planning & Documentation, Power Sources & Distribution, Voltage Drop Calculations, Data Messages (Parameter Group Numbers), Connecting to Other Data Sources, Network Setup, and Troubleshooting. Students will be guided through building a basic NMEA 2000 network at the conclusion of the training course.

### **Advanced Marine Electronics Installer (AMEI) -**

This advanced installer class is designed for the Marine Electronics Installer (MEI) who wishes to achieve competency in advanced topic areas and concepts. An Advanced MEI certificate is an indication that a mid-level installer has a working knowledge regarding commissioning of a boat and installing more complex marine electronic devices. The program will go in depth on proper installation of Computers, Ethernet, NMEA 0183, Autopilots, Radar Commissioning, Gyros & Satellite Compasses, Satellite Communications Antennas, VHF, SSB, AIS, and EMI.

Pre-requisite: Student must have taken the basic MEI Installer Training class.

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**Advanced NMEA 2000 Network Installer -**

The NMEA2000 advanced course focuses on installations, setup, and diagnostic troubleshooting of moderately complex NMEA 2000® networks. The class consists of a PowerPoint presentation followed by "hands on" and the included class lunch. Students split into small groups at classroom work stations equipped with NMEA 2000® networks. The purpose of the hands-on portion is to provide students with the opportunity to demonstrate proficiency in the ability to build, configure, backup network files and evaluate network conditions using the diagnostic tools shown in the class. The training class features NMEA 2000®-certified products from major manufacturers such as Furuno, Garmin, Simrad, Raymarine, Maretron, Actisense and Airmar, including multi-function displays (MFDs), Instruments and sensors of the same function which require instancing. Most importantly, this allows students to get familiar with the diagnostic tools used in the training and offered to students at special reduced pricing from the NMEA. Please note there is absolutely no outside test equipment allowed in the class by students.

Pre-requisite: Student must have taken the basic NMEA 2000 Installer Training class.

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Pricing for the Basic MEI, Basic NMEA 2000 and AMEI training courses are \$460 for NMTA members

Pricing for the Advanced NMEA 2000 training course is \$660 for NMTA members

To register, call the NMEA office at 410-975-9425, or email [clove@nmea.org](mailto:clove@nmea.org)

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