



New England Institute  
of Technology

## 2009 Joint Training Opportunities Presented by ABBRA and NEIT

### Course offerings for 2009:

- Basic Diesel Engine Training Technician Certification, September 28–29, 2009, Rhode Island
- Advanced Diesel Technician Training, September 30– October 2, 2009 , Rhode Island
- Composite Certification– Introduction, February 16–17, and September 28-29, 2009, Rhode Island
- Composite Certification– Advanced, February 18–20 and September 30–October 2, 2009, Rhode Island
- Topcoat Application, March 24-27 and September 28–October 1, 2009, Rhode Island
- Gasoline EFI, September 30–October 2, 2009, Rhode Island

### Training Venue in Rhode Island

Rhode Island courses are held at New England Tech's Rhode Island Marine Technology Center located at the college's Access Road Campus 5 minutes from the Providence Airport.

### Class Size

Class sizes are limited to fifteen participants to ensure hands-on experience.

### Instructors

These training programs have been designed by leaders in the marine industry and feature hands-on learning for the participants. Instructors are drawn from leading industry experts and experienced staff from NEIT.

### Certification

The Fiberglass and Basic Diesel Repair Technician Certification Programs has been accepted by the Marine Industry Certification Board (MIC) for MIC Certification credits. ABBRA certification also means savings on boatyard and marine services facility insurance premiums in the ABBRA member exclusive ABBRAGARD marine underwriting program.

### About New England Institute of Technology

New England Institute of Technology is a private, non-profit co-educational technical college accredited by the New England Association of Schools and Colleges, Inc. The New England Tech/ABBRA training initiative allows the members of ABBRA to utilize the resources and expertise of the college's Associate of Science degree program in Marine Technology. ABBRA and NEIT have a seven year relationship to provide critical training to this industry.

### Cancellation

A refund of fees paid will be made if NEIT receives your cancellation in within 15 days of the course's start date, LESS a service fee of 150.00. After that date refunds will only be made if your seat in the course has been resold. Your registration is fully transferable to someone else in your company ONLY if they fully meet the admission requirements of the course.

### To Register

To register, call NEIT' toll free registration number at 1-800-736-7744 ext. 3458, with the exception of Florida residents who call (401) 739-5000 ext. 3458

**September 28 & 29, 2009  
RHODE ISLAND**

## **BASIC DIESEL ENGINE TRAINING AND TECHNICIAN TRAINING**

This two-day course is designed for the technician with experience in the service and repair of marine inboard gasoline engines. It's the training for technicians who want to advance those basic mechanical skills as they relate to marine diesel engines. Course work is a combination of classroom and extensive hands-on engine lab exercises.

### **Sample Curriculum**

- diesel engine theory
- comparison of diesel to gasoline engines
- diesel fuel injection system
- troubleshooting: compression testing, smoke analysis, oil and coolant analysis
- cold start assist systems
- compression testing
- fuel testing
- laboratory analysis of engine fluids
- pyrometer comparison of cylinder readings
- cylinder balance testing
- manometer testing for air intake and exhaust system diagnosis
- use of a mechanic's stethoscope to locate engine noises
- cooling system pressure and thermostat testing
- testing glow plugs and related circuits
- injection system service: injector removal and testing; injector cleaning and nozzle replacement; bleeding the fuel injection system
- Detroit Diesel fuel modulator system
- turbo-charger function and boost pressure, troubleshooting, and repair
- routine maintenance procedures; winterization, lay-up, and spring start-up procedures
- engine room ventilation, negative suction or positive pressure
- Written Final Exam - ABBRA issues a certificate of completion.

### **Course Fee:**

ABBRA members \$495

Non-ABBRA members \$595

**September 30–October 2, 2009  
RHODE ISLAND**

## **ADVANCED DIESEL TECHNICIAN CERTIFICATION**

This three-day course is designed for the diesel engine technician who has mastered the basic marine diesel engine skills as covered in the ABBRA Basic Diesel Engine Technician course, and who wants to advance those skills to those covered in the following curriculum. Course work is a combination of classroom and extensive hands-on engine lab exercises. Pre-registration testing is provided to employers who want to determine that their prospective enrollees for this program have the requisite experience to benefit from the course experience. The test is provided at the time of registration, or can be accessed via the ABBRA website at [www.abbra.org](http://www.abbra.org). The decision to enroll an employee rests solely with the employer regardless of the test results.

### **Sample Curriculum**

- Air Intake: air induction and filtration systems; turbo charging; waste gate; boost verification; inter/after cooler systems; methods and checks; environmental concerns
- Exhaust Systems: exhaust manifolds and risers; dry exhaust; wet exhaust water injection considerations; system materials; mufflers and water-lifts; back pressure & installation considerations
- Fuel Injection: mechanical system troubleshooting; bore scope usage
- Component Test Procedures: injection pumps; nozzles; lift pumps; high-pressure pumps; unit injectors
- Introduction To Electronic Engine Systems: data inputs; data processing; control unit outputs; basic troubleshooting
- Laser Alignment: engine; running gear
- Written Final Exam - ABBRA issues a certificate testifying to each successful technician's mastery of these competencies.

### **Course Fee:**

ABBRA members \$795

Non-ABBRA members \$895

## **FIBERGLASS REPAIR AND TECHNICIAN TRAINING AND CERTIFICATION**

### **INTRODUCTORY COURSE**

**February 16 & 17, 2009**

**September 28 & 29, 2009**

To prepare for the hands-on certification, ABBRA offers a two-day introductory course. This course is held immediately before the three-day hands-on certification at the same venue and taught by the same instructor. Curriculum for the introductory course includes: Shop & Worker Safety, Solvents, Catalysts, & Release Agents, Resin Types, Differences & Applications, Secondary Bonding, Repairs To Cored Laminates, Vacuum Bagging & Resin Infusion Methods, Working With Carbon Fiber & Kevlar, Post Curing Methods, and Surface Sealing To Prevent Osmotic Blistering.

Non member \$695.00

Member \$495.00

### **HANDS-ON CERTIFICATION**

**February 18–20, 2009**

**September 30– October 2, 2009**

Successfully complete the three-day hands-on certification and receive an ABBRA Marina Composite-Repair Certification. During ABBRA's hands-on certification, each student will be provided with a damaged composite panel of varying structure, contour, and color. The student will then describe the appropriate repair procedure to the class. After each participant has expressed his/her intended repair procedures and discussed it with the other students, all students will perform the repairs to completion. Collaboration of ideas and techniques will be encouraged between students and the instructor. Materials will include resins, gelcoat, pigments, solvents, fabrics, fairing compounds, peel-ply, breather, initiators/hardeners, and core. The instructor will observe proficiency in safety, hand skills, time management, and communication skills.

Non member \$995.00

Member \$795.00

#### **Register for the Introductory and Hands-On Certification and pay:**

Non member \$1,295.00, save \$395.00

Member \$1,195.00, save \$95.00

You can also prepare for ABBRA's hands-on certification through two online courses offered by [www.proboate-training.com](http://www.proboate-training.com)

## **March 24– 27, 2009 September 28–October 1, 2009 TOPCOAT APPLICATION**

The three-day ABBRA Topcoat Application program will advance both the beginning and experienced topcoat applicator's level of expertise in boat surface preparation, deepen the understanding of topcoat systems and application equipment and techniques, build skills in estimating and troubleshooting the job, and ensure thorough comprehension of current shop and personnel safety practices. Students will have plenty of shop projects to practice their mastery by preparing fiberglass panels for finish topcoat applications in a state-of-the-art paint workshop. Curriculum includes: setting up your paint shop; product overview; selecting the system; the spray gun; surface preparation; sanding-abrasives; primers and application use of high build primers; fairing and the use of fairing compounds; the topcoat and mixing; application of topcoats; detailing the finished product; repairing topcoats; and, estimating paint work.

#### **Sample Curriculum**

- Shop & Worker Safety
- Setting Up Your Paint Shop
- Product Overview-Selecting The System
- The Spray Gun
- Surface Preparation
- Sanding-Abrasives
- Primers And Application
- Use Of High Build Primers
- Fairing And The Use Of Fairing Compounds
- The Topcoat And Mixing
- Application Of Topcoats
- Detailing The Finished Product
- Repairing Topcoats
- Estimating Paint Work
- Written Final Exam - ABBRA issues a certificate testifying to each successful technician's mastery of these competencies.

#### **Course Fee:**

ABBRA members \$995

Non-ABBRA members \$1,195



American Boat Builders & Repairers Association  
50 Water Street  
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[www.abbra.org](http://www.abbra.org)

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⇒ 2009 Training & Education Opportunities ⇒ Basic & Advanced Marine Diesel Repair ⇒ Fiberglass Repair ⇒ Topcoat Application ⇒ Gasoline EFI ⇒ Marine Service Management Course ⇒ IBEX - Miami Beach FL ⇒ Boat Lifting Equipment Operator Training



## 2009 Training & Education Opportunities

Detailed information about joint programming presented by ABBRA and New England Institute of Technology inside.

Training topics include:

- Basic Diesel Repair
- Advanced Diesel Repair
- Fiberglass Repair
- Topcoat Application

### Other Training & Education:

- ⇒ Marine Service Management Course, September 11-14, 2009, West Palm Beach, FL. Contact Kayce Florio at 401-247-0314.
- ⇒ Boat Lifting Equipment Operator Training. If you are interested in being a host yard, please email [info@abbra.org](mailto:info@abbra.org) to set up a training at your facility.
- ⇒ IBEX, October 12-14, 2009, Miami Beach, FL
- ⇒ International Marina & Boatyard Conference, January 25-28, 2009, Ft. Lauderdale, FL. Email: [IMBC@marinaassociation.org](mailto:IMBC@marinaassociation.org)

For more information visit [www.abbra.org](http://www.abbra.org), email [info@abbra.org](mailto:info@abbra.org) or call 401-247-0318