

**North Atlantic Marine Service, Education Division
North Atlantic Technical Training**

presents

BST-100

Boatyard Skills Training Workshop (100 hrs)

We know the number one issue when hiring a marine technician, both entry-level and veterans, is for them to have the necessary skills to make an impact upon accepting employment. Industry surveys show that many employees entering the marine industry today do not possess specific skills needed to be profitable for their employer in a reasonable period of time. North Atlantic Technical develops training programs to address these needs and graduates have the skills necessary to make an immediate impact when hired. North Atlantic Technical works closely with the Association of Marine Technicians (AMTECH) and local marine dealerships in order to stay abreast of what the industry needs from their technicians.

- **The Boatyard Skills Training Workshop is an evening program that is held 6:00 to 9:30pm Tuesday and Thursday nights and 8:00am to 4:30pm every other Saturday.**

□ **Module #1: Marine Technician Fundamentals (50 hrs)**

This course is the first of the four modules required to complete the Boatyard Skills Training Workshop. This course presents a brief overview of the marine industry, working environment for technicians, personal tools and equipment. Introduced are vessel and engine identification, nautical terms and proper startup procedures. A segment for how basic electricity works, electrical measuring equipment and wiring repairs will be taught. There is a specific troubleshooting process that will be explained and taught as a foundation for the student. Spring commissioning (engine and vessel systems) are presented in a logical order with ABYC regulations embedded in the steps. Cosmetic detailing and proper bottom painting procedures and PPE will be discussed. The Clean Marina policies will be an integral part of this training and each student will be familiar with these practices.

Trailer maneuvering and inspection procedures will be a skill set displayed and practiced. Students will also be exposed to boatyard-marina "Yard Equipment" and the associated safety concerns working around this equipment. Instruction includes lecture and hands-on training as well as demonstrations of boat moving equipment at our Wareham and Plymouth Boatyard locations.

□ **Module #2: Marine Technician Outboard Engines (25 hrs)**

This is the second of the four modules required to complete the Boatyard Skills Training Workshop. Participants learn identification of various engines types and outboard component locations. Where to find recommended maintenance intervals as well as seasonal servicing (tune ups, waterpump and thermostat replacement, etc) procedures will be part of the hands on experience. Running the engines "on the hose" properly and filling out a checklist of the operating conditions found will ensure a complete inspection of each job. Technician

troubleshooting skills introduced in Fundamentals will be practiced as we discuss issues that are relevant in the industry today.

□ **Module #3: Marine Technician Inboard and Stern Drive (20 hrs)**

This course is third of the four modules required to complete the Boatyard Skills Training Workshop. Concentration on gasoline inboard style engines, propulsion systems including; (outdrive operation/identification and marine transmissions), underwater running gear and steering systems. Automotive engine components are studied in great detail as they are "Non-Compliant" in a marine application.

Engine fuel, ignition, cooling, lubrication, exhaust and hydraulic systems are discussed only at an awareness level. Participants learn the operation, controls and maintenance for marine gasoline engines. Like Outboards, running of the engines "on the hose" properly and filling out a checklist of the operating conditions found will ensure a complete inspection of each job.

□ **Module #4: Marine business management skills (5 hrs)**

This course is last of the four modules required to complete the Boatyard Skills Training Workshop. It is extremely important that all technicians have an understanding on how to effectively run a marine business. This course is necessary so a technician will possess the skills necessary to interact with boaters, and to understand how important it is to be a team player. This module is ideal for the employee to understand what it takes for a company to be successful in the marine industry. The following principles will be covered:

- Employee expectations
- Communication skills; personal and telephone
- Daily documentation

Workshop starts:

Tuesdays and Thursdays 6:00 - 9:30

January 24,2012 - March,2012 20 nights 70hrs

Saturdays 8:00 - 4:30

Febuary 4th & 18th (Boston Boat Show) 32hrs

March 3rd & 17th