Marine Systems Program

The Marine Systems Program prepares students to install, maintain and repair contemporary boat systems to established industry standards. Instruction emphasizes the interdependency of marine systems with boat design and construction. Students practice actual installations of boat systems in a real-world setting.

The curriculum for the Marine Systems Program is comprised of 16 individual subjects ranging from measurements to electrical systems to refrigeration. Each subject employs three phases of learning: a Classroom Phase during which students learn theory, primarily through lectures; a Bench Work Phase during which students learn proper assembly techniques and develop hand-skill proficiency in a shop setting; and an Installation Phase in which students apply their knowledge and skill to the installation of systems in actual boats.

The maximum class size in the Marine Systems Program is 24 students. A student who successfully meets the criteria for graduation from the program is awarded a Diploma in Marine Systems from The Landing School.

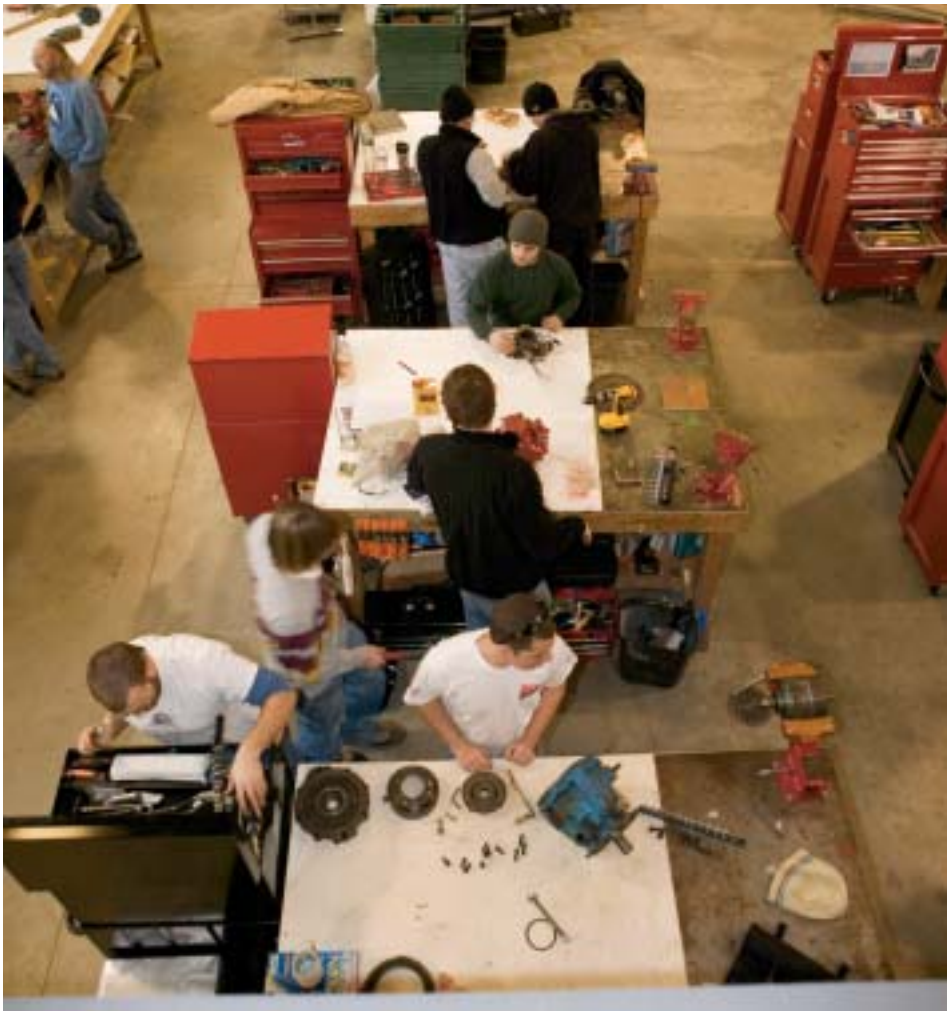
"My time at The Landing School was one of the best experiences I've ever had. The instructors are very knowledgeable and supportive, and they're willing to teach students anything they want to know."

—Eric Gerard, Marine Systems Program Graduate

Marine Systems Program

OBJECTIVE

The Marine Systems Program teaches students the skills and knowledge necessary to install, maintain and repair today's increasingly complex boat systems using established industry standards by organizations such as the American Boat & Yacht Council, U.S. Coast Guard and International Standards Organization. Graduates of the program are certified marine systems technicians prepared to work for manufacturers, service yards, custom builders and yacht owners.



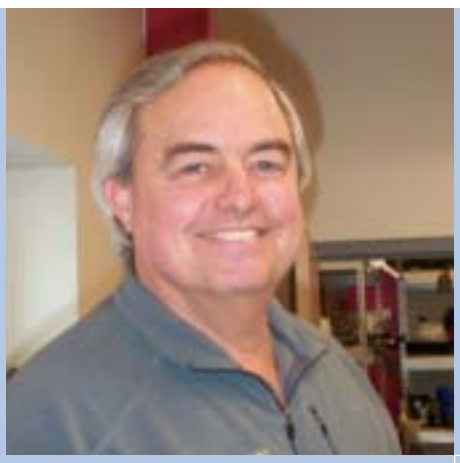
COURSE DESCRIPTION

Students in the Marine Systems Program learn the fundamentals of systems starting with basic shop practices such as safety and measurements. Instructors begin many of their lessons in the classroom, where students frequently need to draw on basic math skills to figure measurements and electrical units. Following a lecture in systems theory, students then head to the shop where they learn how to apply their knowledge to actual marine systems. Time is also provided for guided independent study during which students complete assigned projects on their own.

The curriculum moves steadily through basic installations of pumps and valves to increasingly more complex systems. Students take apart and put back together bilge and raw water systems, electrical systems, propulsion systems, sailboat rigging, sanitary systems, steering and control systems and refrigeration systems.

The Marine Systems Program simulates a work environment in a real-world boatshop. Students spend a minimum of 40 hours per week learning about and working on marine systems. Students are encouraged, and required in some instances, to take industry certification exams as part of their training at The Landing School. Instructors also teach and emphasize professionalism in the marine industry.

Scott Lambert, Marine Systems Program instructor, is a 2002 graduate of The Landing School. Prior to his time at The School, he traveled extensively with the Navy as an aircraft mechanic and studied mechanical engineering at UCLA. He was also an owner of an electronics component manufacturing representative firm. In the years since he graduated from The Landing School, he has worked with yacht designers Walter Green and Dick Newick, and with boatbuilders Bath Iron Works and Hodgdon Yachts. His yacht design experience varies from 92' tugboats to racing trimarans to replicas of circa-1500 Dutch frigates.

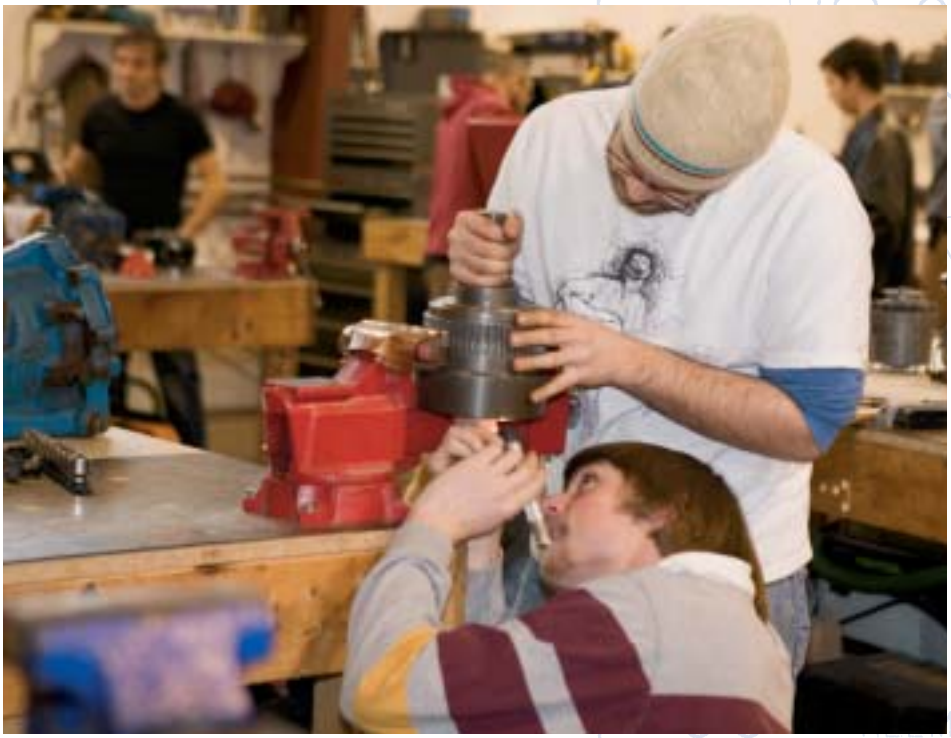


SYLLABUS: Marine Systems Program

This is a sample syllabus for the 10-month-long Marine Systems Program:

- Measurement and shop practices
- General installation training
- Introduction to pumps
- Seacocks, thruhulls and valves
- Bilge and raw-water pumps
- DC electrical systems
- AC electrical systems
- Specialty electrical applications
- Propulsion and engine systems
- Sailboat rigs and equipment
- Sanitary systems
- Freshwater plumbing
- Steering and controls
- Refrigeration and air-conditioning
- Accommodations and interior equipment
- Technician professionalism

Total clock-hours: 1,417.5



ABYC®
Endorsed Educational Program

Roger Hellyar-Brook, Marine Systems Program manager, joined The Landing School in 1998 to manage and teach the first class in marine systems. He had spent 15 years as a service manager at one of the largest marine service facilities north of Boston. In the years prior, Roger served as a marine engineer with the British Army, the Cunard Steamship Company and Mon River Towing in Ohio. When Roger's not in the classroom, he's often presenting to national audiences on marine topics.