



INTERNATIONAL YACHT RESTORATION SCHOOL

Dear Prospective Student,

What sets IYRS graduates apart? According to many employers in the marine industry, it's their passion, their commitment to life-long learning, teamwork and problem solving skills, and the deep understanding of how to get a job done right and on time. These are attributes that will serve you well in almost any career. At IYRS, they go to the core of our educational approach.

The marine industry today is a diverse, technologically advanced field where traditional production techniques intersect with tomorrow's building processes. At IYRS, students are offered a singular opportunity to be immersed in a learning environment where creativity, teamwork, a first-rate faculty, and a culture of craftsmanship produce graduates who are ready to make a contribution and a difference. In short, IYRS is where the marine industry looks for people who are qualified to shape the future.

By weaving together a rich hands-on and instructional curriculum taught by industry professionals, augmented with lectures, field trips and independent study projects, IYRS has developed a world-wide reputation for training shipwrights, systems and composites technicians. It is an intense educational experience, preparing our students for careers in the marine trades and related fields. IYRS graduates hold jobs in premier boatyards and marine companies throughout the world.

A defining difference of an IYRS education is the opportunity to study in Rhode Island, the epicenter of the marine industry in the Northeast. Our two campus locations, one a 2.5-acre waterfront campus in the heart of Newport harbor and the other in historic Bristol, provide access to a unique mix of maritime history and industry activity, from manufacturing, service, and boatbuilding to on-the-water activities.

Enclosed you will find information about our programs and an application, as well as an explanation of the application process. If you have any further questions about the school, our programs, the application process or would like to come for a tour, please contact me.

Thank you for inquiring about our career programs in the marine trades.

Sincerely,

A handwritten signature in black ink that reads "John C. Freer".

John C. Freer
Director of Admissions
jfreer@iyrs.org



COMPOSITES TECHNOLOGY CERTIFICATE PROGRAM (9 MONTHS)

OVERVIEW

The need for composites expertise is crucial in the ever-changing marine industry. The IYRS Composites Technology Program is designed to provide a comprehensive education for the next generation of marine technicians. Where traditional technical and molding processes serve as foundational skills, the movement toward advanced molding technologies – CAD/CAM development and advanced composites – creates expanding opportunities for the industry and career paths for talented practitioners.

The IYRS generation of composites technicians will be proficient in vacuum infusion processing, advanced composites molding, CAD operations, robotic CNC plug building and composites restoration practices. After establishing a foundation of traditional technology, the program guides students into the realm of leading edge composites skills. The combination of hands-on skills with technical knowledge is designed to produce career workers who will lead the marine industry into the future.

Dates: September through May

COMPOSITES FUNDAMENTALS: Introduction to composites uses and applications. Establish an understanding of two major areas of composites applications – advanced composites and general composites. Develop proficiency in the safe handling of composites materials. Experience a range of composites molding processes – Open Molding, Vacuum Bagging, Vacuum Infusion Processing, Resin Transfer Molding, Filament Winding, and Advanced Composites Prepreg Processing. Establish a context for manufacturing composites products - custom molded, low volume products and higher volume production molding.

COMPOSITES MANUFACTURING METHODS: Develop proficiency in the broad scope of composites production processing methods. Equip students with a detailed understanding of safety practices. Provide an introduction to plural component application equipment and develop state-of-the-art skills in spray equipment set-up. Develop skill in the application of in-mold coating (gel coat). Develop the practical skills and technical knowledge of a range of composites molding methods including open molding, vacuum bagging techniques, vacuum infusion processing, prepreg processing, and advanced prepreg applications in complex structures. Students will demonstrate proficiency in the execution of each of prescribed molding processes.

COMPOSITES TOOLING DEVELOPMENT: Develop the prerequisite skills for reading drawings and hands-on lofting, including exercises in manually lofting the lines for pattern (plug) development. Introduction to computer aided design (CAD) drawing and operation of computer numerical controlled (CNC) machining equipment for development of patterns. Develop skills for CNC pattern fabrication, uploading tool path files, and the operation of CNC equipment including exercises in the machining of pattern stock into a plugs used to build FRP molds. Develop proficiency in finishing machined patterns. Develop proficiency in the fabrication of FRP and advanced composites tooling, including tooling surface development, tooling laminate application, and development of mold support structures.

COMPOSITES REPAIR AND REFINISHING: Develop knowledge and skill to identify specific types of cosmetic defects and structural damage – Recognize the delineation between minor and major structural damage. Develop practical skills using cosmetic repair techniques for gel coat and paint finishes. Demonstrate proficiency in damage assessment and executing structural repairs of general composites and advanced composites. Develop skills on advanced composites repairs.

COMPOSITES TECHNOLOGY TOOL LIST

Each student at IYRS is responsible for his or her own set of personal hand tools. Tools do not have to be new, simply in good working condition.

- Safety Glasses
- Hearing Protection
- Full Face Shield
- Half-face Cartridge Respirator
- Dust Masks
- Disposable Tyvek Coveralls, Gloves and Chemical Gloves
- Adjustable Wrenches 6" and 10"
- Set of Woodworking Chisels
- Set of Cold Chisels
- 12" Combination Square
- Set of Combination Wrenches – Metric 6-24mm and SAE ¼" - ¾"
- 3/8" Electric Drill
- Set of Files and Rasps
- 10" Hack Saw
- 16 oz. Claw Hammer and Rubber Hammer
- 15" Hand Saw
- Hex Key Set – Metric and SAE
- 2' Level
- Marking Gauge
- Set of Pliers – Channellock, Diagonal Cut, Needle Nose, Vice Grip and Slip Joint
- Pry Bar
- Set of Putty Knives
- Retractable Utility Knife
- 4' Aluminum Straight Edge and 2' Roofing Square
- 8" Pair of Scissors
- Scratch Awl
- Screwdriver Set – Phillips and Slotted
- 3/8" Drive Socket Set – Metric 7-24mm, and SAE 3/8"-7/8"
- Surform Plane #21-296, & #21-399
- 25' Tape Measure
- 8" T-bevel
- PC Laptop



MARINE SYSTEMS CERTIFICATE PROGRAM (9 MONTHS)

OVERVIEW

Developed in response to the marine industry's demand for skilled labor in the growing and rapidly changing field of marine systems, IYRS has partnered with the American Boat and Yacht Council (ABYC) to develop a nine-month certificate program in Marine Systems. Based on ABYC standards, the Marine Systems program is designed to teach students how to install, troubleshoot, maintain and repair the major systems found in power and sail boats. The program is taught by industry professionals with considerable experience and certification in the field. Upon completion of the program, students will be prepared to sit for the relevant ABYC certification exams.

Dates: September through May

FIRST TERM (15 WEEKS) - Fall

SHOP SAFETY AND TOOL USE The course covers shop safety standards and safe operating procedures for stationary and portable hand and power tools as well as appropriate Federal and State standards, personal protective equipment, machine tool safety, hazardous waste, and fire prevention procedures.

FRP COMPOSITES FOR THE MARINE TECHNICIAN This course teaches the knowledge necessary to select proper materials and to observe precautions when working around composite structures, including resin characteristics used in laminates, secondary bonding when modifying an existing structure, and proper core sealing techniques.

ELECTRICAL FUNDAMENTALS AND BASIC INSTALLATION This course teaches fundamental principles for circuit and electrical equipment design including use of electrical meters and test equipment to troubleshoot common electrical circuit problems, and component fault identification.

ADVANCED ELECTRICAL INSTALLATION AND TROUBLESHOOTING An extension of Electrical Fundamentals and Basic Installation, this course covers circuit layout and design, equipment installations in accordance with the US Code of Federal Regulations (CFR), and more advanced topics covered in the applicable ABYC Electrical Standards.

ELECTRICAL PRACTICUM This course is designed to advance installation skills, knowledge and techniques for onboard AC and DC circuitry systems through project exercises.

PIPING AND PLUMBING / POTABLE WATER SYSTEMS This course teaches the installation techniques of various onboard plumbing systems, including standard maintenance, winterizing and re-commissioning, seacocks, thru-hull installation and connections, hose and fitting types, drain plugs, and potable water systems.

ON BOARD TANKAGE (FUEL, POTABLE WATER, WASTE) This course covers the standards and industry practices that apply to tankage systems, design and installation requirements.

MARINE SANITATION DEVICES (MSD) This course covers the Federal and local regulations for waste water systems and specific characteristics of the three general types of sanitation systems. Course work includes commissioning and decommissioning, maintenance, troubleshooting, diagnostics and repair.

MARINE SYSTEMS TOOL LIST

Each student at IYRS is responsible for his or her own set of hand tools and equipment. Tools do not have to be new, simply in good working condition.

- Personal Protection Apparatus: Safety Glasses or Goggles, Hearing Protection, Dust Masks
- 6" Adjustable Wrench
- 10" Adjustable Wrench
- 18v Cordless Drill
- 263 Piece Tool Set w/Metric & Standard Wrenches, Sockets, Deep & Reg., Assorted Tools
- 3" Pipe Wrench
- Small Pipe Wrench
- 7" Vise Grips
- Channel Locks (2 sizes)
- Pliers
- Needle Nose Pliers
- Screwdriver Set
- Hacksaw and Selection of Blades
- 5-75 Ft. Lb. Torque Wrench
- 6-Drawer Bench Top Tool Chest
- Tool Bag
- Multi – Meter – BK Precision Model 2707A
- Test Lead Set
- Solder Sucker
- Solder Iron 25 – 35 Watt
- Solder Iron Holder
- Solder Gun 150 – 300 Watt
- "Kronos Helping Hands" Tool
- Crimper (Ratcheting Type)
- Forceps
- Side Cutters
- Strippers
- 13 Piece High Speed Twist Drill Set
- Jeweler's Screwdriver Set
- Assorted High Speed Spade Drill Bits (1/2" – 1 1/2")
- Assorted Hole Saw Bits (5/8" – 1")
- Countersink and Power Rasp Bits
- Assorted Drill Driver Bits (Phillips, Flat, Square)
- Razor Utility Knife
- 10" Rasp
- 10" Half Round Course File
- Dial Calipers
- PC Laptop

More ►



MARINE SYSTEMS CERTIFICATE PROGRAM

MARINE PUMPS This course covers the primary pump types and categories including impeller, centrifugal, displacement, and diaphragm. Course work includes determining the most appropriate pump type for a given application, pump performance and effective service life, design and installation of various pump systems, and manufacturer specific recommendations.

LPG AND CNG SYSTEMS This course covers the installation and service of on board gas systems used for cooking, water heating and cabin heat as well as fuel storage, system design and appliance selection.

FIRE PROTECTION SYSTEMS This course covers USCG requirements for onboard fire extinguishing equipment for recreational boats. Course work covers portable, fixed, manually actuated, and automatic systems, fire classifications, differences in extinguishing agents, manufacturer specific recommendations, and system capacity calculations and design.

FUEL SYSTEMS - GAS & DIESEL This course covers the design, installation and maintenance procedures for fuel systems as dictated by both the CFR and ABYC Standards. The course outlines the requirements for tank design, location and installation as well as proper plumbing for fuel fill and vent systems.

STEERING SYSTEMS This course covers a variety of steering system types for both power and sailing craft. Course work covers selection, installation, and service of marine steering systems, both mechanical and hydraulic. Since many of the systems are proprietary in design, lessons will follow specific recommendations from vendors such as Edson, Teleflex and Vetus.

SECOND TERM (20 WEEKS) - Spring

DIESEL ENGINES 1 This course teaches the fundamental principles and operational needs of marine diesel engines. Course work includes the primary needs of a diesel engine; routine maintenance tasks such as commissioning and decommissioning; fuel and lubrication system service, cooling system maintenance and service, and troubleshooting and preliminary diagnostics.

DIESEL ENGINES 2 This course covers mechanical and electronic diesel engine fuel injection systems and engine drive systems. Course topics include service and diagnostics of fuel injection systems; problems associated with diesel engine performance; theory of operation and design features of engine drive gears, maintenance and service of mechanical and hydraulic inboard engine drive gears, and problem diagnostics for marine gear units. Lab work will cover assembly and disassembly procedures on marine gear assemblies.

GASOLINE ENGINE MAINTENANCE, REPAIR AND OVERHAUL This course covers the theory and operation of gasoline inboard and inboard / outboard engines. Course topics include maintenance and repair procedures, commissioning and decommissioning, basic engine needs such as fuel, air, compression and exhaust for both carbureted and fuel injected engines, routine tuning procedures, and use of electronic scanning equipment and proprietary laptop-based software programs to perform diagnostic procedures on new engine EFI systems.

INBOARD/OUTBOARD AND SAILDRIVE MAINTENANCE, REPAIR AND OVERHAUL This course covers removal and installation techniques, routine maintenance, disassembly and overhaul of inboard/outboard and saildrive gear assemblies from Yanmar, Mercury and Volvo Penta.

MECHANICAL PRACTICUM This course is designed to advance installation skills, knowledge and techniques for onboard mechanical drive diesel and gasoline power systems through project exercises.

AIR CONDITIONING AND REFRIGERATION SYSTEMS This course covers the basic physics of refrigeration systems, principles of operation, cooling components, essential selection, sizing and systems maintenance methods and procedures, and environmental considerations. Lab work includes system problem diagnosis, refrigerant recovery, system evacuation and recharge procedures and leak detection.

PROJECT MANAGEMENT This course covers the basic principles and skills of estimation, costing, budgeting and contracting for electrical systems and power systems installations.

MARINE ELECTRONICS INSTALLATION AND TROUBLESHOOTING This course covers the types and categories of equipment used in onboard electronic systems including communications and navigation equipment, autopilot, and networked monitoring systems. Course work includes installation, ergonomics, weatherproofing, grounding and antenna mountings, FCC requirements, and NMEA (National Marine Electronics Association) installation standards.

ELECTRONICS PRACTICUM This course is designed to advance installation skills, knowledge and techniques for onboard marine electronic systems through project exercises and hands-on use.

INDUSTRY EXTERNSHIP This course is designed to advance the skills and proficiencies taught in the program and to promote self-motivation and confidence in an economically driven real world environment through self-elected industry externships.



BOATBUILDING & RESTORATION CERTIFICATE PROGRAM (20 MONTHS)

OVERVIEW

The IYRS Boatbuilding & Restoration Program provides students with a level of competency that will allow them to find jobs in the best modern and traditional boat yards in the world. Students are exposed to the full range of skills that comprise proficiency in wooden boatbuilding and restoration. Students learn by doing, working alongside master shipwrights and other trained instructors restoring a variety of classic wooden boats, both power and sail. Practical experience restoring classic boats is supplemented by classroom lectures, drawing and design exercises, classes in surveying and business techniques, and off-campus excursions.

**Dates: September through May
with a summer term between Years One and Two.**

YEAR ONE

FALL

The first term begins with shop safety and tool and machine use. Students will progress from a series of bench projects designed to develop tool-use skills directly into the restoration of a small boat. In addition to the restoration work, students will measure a small boat, loft the lines, and create a scale lines plan and half model. Portfolio items completed by the end of the semester will include several small tools, a toolbox, a lines drawing, a half-model, and photo documentation of restoration projects. Subjects covered will include hull shape, lines drawings, and the fundamentals of wooden hull construction, materials and technology.

Courses: Shop Safety, Hull Shape and Lofting, Historic Documentation I, Restoration Practicum I.

SPRING

During the second term students will measure a small boat, loft the lines, develop construction details on the lofting, and create a scale lines plan and construction plan. Project documentation techniques are introduced. Students continue the restoration of their project boat. Portfolio items for the second semester will include a second lines plan and construction drawings and photo documentation of restoration projects. Subjects covered will include hull shape and lines drawings, construction drawings, basic structural marine engineering, fundamentals of wooden hull construction and materials and technology.

Courses: Documentation and Drafting, Restoration Practicum II.

BOATBUILDING & RESTORATION TOOL LIST

Each student at IYRS is responsible for his or her own set of hand tools. Tools do not have to be new, simply in good working condition.

- Safety Glasses (clear)
- Hearing Protection
- 3M Respirator w/Organic Vapor Cartridges and Plastic Storage Container
- 3M Pink Dust Cartridge
- 3/8" Chuck Electric Drill (cordless preferred)
- Set of Drill Bits - 1/16" – 1/2" by 1/2" increments
- Fuller Tapered Drill Set #8
- Box of Pencils
- 6" - 12" Metal Combination Square
- 8" Bevel Square
- 16' Tape Measure
- 8" Pencil Dividers/Compass
- Low Angle Block Plane
- #3 or #4 Bench Plane
- #92 Rabbet Plane or High Quality (Veritas) Bullnose Plane
- Chisel Set - 1/4", 3/8", 1/2", 3/4", 1" (4" blade length with high quality tool steel)
- Wood Handled Veritas Spoke Shave w/Adjustable Knobs (or old Stanley from flea market)
- 16 oz. Claw Hammer
- Screwdriver Set (small, medium, and large slotted and a Phillips to fit #2 screws)
- Combination Wrenches - 7/16", 1/2", 9/16"
- 6" Adjustable Wrench
- Vise Grip
- Retractable Utility Knife
- Heavy Duty Glue Gun w/3/8" Glue Sticks
- Hex Key Set Standard
- Putty Knife 1", 3"
- Paint Scraper
- Flat Bar
- Cabinet Scraper (Sandvik-Type Card Scraper)
- Dovetail or Back Saw
- Japanese Crosscut Saw (2-sided)
- 3M Hard Rubber Sanding Block
- Hack Saw
- Plumb Bob
- 35mm Point and Shoot or Digital Camera
- Padlock
- 3" or 4" Machinist's Square
- Pin Punches
- Box of Sharpie Markers
- Natural Bristle Paint Brushes - 1", 1 1/2", 2", 2 1/2"



BOATBUILDING & RESTORATION CERTIFICATE PROGRAM

SUMMER

The final term of the first year builds on restoration skills developed in the previous semesters as well as basic boat handling, seamanship and navigation. The summer term also includes an Independent Study, which allows students to complete self-selected projects that address their individual interests and proficiencies. Portfolio items will include photographic documentation, and the end product of the Independent Study.

Courses: Sailing and Seamanship, Independent Study.

YEAR TWO

The second year of the Boatbuilding & Restoration program builds on the knowledge and skills achieved in the first year through the teaching of advanced restoration skills and project management techniques.

FALL

The first term begins with a review of shop safety. The first week is dedicated to a course in hull survey and assessment resulting in student survey reports of selected vessels. The second week is dedicated to a course in project management. Included in the project management course are real time exercises in materials costing and procurement, labor estimates, business fundamentals, and contracts and customer relations. Students then begin the restoration of their second year project boat. Project management and labor estimating are applied directly to the second year restoration project. During advanced lofting students learn the techniques used to transfer the shape of the faired hull to patterns and molds used in the restoration of the subject boat. Students then focus on the restoration of the hull framework and planking. Students also focus on improving craftsmanship as well as the management of restoration projects. Portfolio items will include photographic documentation of restoration project, survey report, bill of materials, table of scantlings, labor estimate, contract agreement and lines / construction plans.

Courses: Survey and Assessment, Project Management, Advanced Lofting, Restoration Practicum IV.

SPRING

The second term focuses on the final phase of a boat's hull restoration and includes joinery such as decks, cockpit furniture, hatches, and interior bulkheads. The final phase of the restoration includes finishing and fitting out with hardware, sailing rig or power train in the case of a powerboat. Portfolio items include photographic documentation of the restoration project.

Course: Restoration Practicum V.



FREQUENTLY ASKED QUESTIONS

Below are some frequently asked questions about IYRS and our programs.

Q: What type of educational programs does IYRS offer? A: IYRS offers three full-time Certificate programs in Boatbuilding & Restoration, Marine Systems and Composites Technology. IYRS is accredited by the Accrediting Commission of Career Schools & Colleges (ACCSC). In the 20-month Boatbuilding & Restoration program, students work on restoring classic wooden boats and develop strong boatbuilding and woodworking skills—training that can be used in jobs at modern and restoration boat yards. In the 9-month Marine Systems program, students learn the many trades that comprise the boat manufacturing and service trade such as plumbing, electrical, gas and diesel engines, HVAC and refrigeration, electronics and steering systems. In the 9-month Composites Technology program, students learn vacuum infusion processing, advanced composites molding, CAD operations, robotic CNC plug building and composites restoration practices. IYRS also offers a Continuing Education program which is focused on the type of short-term skills training desired by employers and includes courses in woodworking, onboard systems installation and maintenance, coatings application, and boatbuilding.

Q: Is there a typical IYRS student in the full-time programs, in terms of age, education, and previous work experience? A: No. Students in the current class are a diverse group, ranging in age from 18 to 60. The student body includes high school graduates and GED recipients, as well as adults and professionals who are seeking skills for a new career path. Students do not need prior woodworking, boatbuilding or maintenance skills in order to gain admission to our programs but should be comfortable working with their hands. The school has a worldwide reputation, and students from North America, Europe, and Asia have studied at IYRS.

Q: Is IYRS competitive to gain admissions to? A: IYRS looks for people that are committed to being successful students during their time here and will also go on to become the high caliber employee that employers have come to expect of an IYRS graduate. Although our students come from very diverse backgrounds and abilities, what they all have in common is a love for the water and boating.

Q: Is financial aid available? A: Financial assistance for full-time students is available from a variety of sources. IYRS participates in the Federal Pell Grant Program, Direct Federal Stafford Loan Program, and PLUS - Federal Parent Loan for Undergraduate Students. Tuition assistance is also available through the U.S. Department of Veterans Administration for veterans who qualify for educational benefits. IYRS also offers scholarships.

Q: What is the job-placement rate for IYRS graduates? A: IYRS' Academic Coordinator assists each graduating student with job placement. Also, industry job openings are posted on the IYRS website and our annual Career Day is attended by a wide range of companies who come to interview our graduating students. Students who graduate from IYRS' full-time programs have been successful in finding employment and receive very strong satisfaction ratings from employers—and IYRS has a reputation for graduating individuals with a passion for their work and pride in their workmanship. The school has a strong relationship with the marine industry. IYRS is often the first choice for marine industry businesses looking to hire employees and they contact the school regularly to fill their open positions.

Q: Do you provide housing for students? A: IYRS does not provide campus housing but our Academic Coordinator assists all prospective students in locating housing. We have an extensive number of contacts with realtors and landlords in both the Newport and Bristol areas for students seeking housing.

Q: Do you have an externship program? A: Yes, many IYRS students work on externship assignments to give them hands-on experience while reinforcing their respective program's curriculum. Externship assignments are arranged by the Program Director and are available in the Newport and Bristol areas, or if possible, in the home state of the student. Typical externships are done in a marina, manufacturer or service yard.

Q: Can I train at IYRS while holding a full-time, 9-5 job? A: Yes. The Continuing Education program had been developed especially for individuals who work full-time. The skills taught are those that are desired by marine industry employers. Courses are held in the evenings and on weekends.



FREQUENTLY ASKED QUESTIONS

Q: How can I learn more about IYRS? A: The school Website at www.iyrs.org has more detail on our full-time and Continuing Ed programs. Individuals with questions about courses and programs are encouraged to contact John Freer, Director of Admissions (401-848-5777, x203 / jfreer@iyrs.org). Potential applicants with questions about admissions and financial aid should contact Debra Huntington, Academic Coordinator, (401-848-5777, x205 / admissions@iyrs.org). Individuals considering the full-time programs often take Continuing Ed courses to get better acquainted with the school. Several Open Houses are also held throughout the year and are listed on the school's Website.

Below are some frequently asked questions about career opportunities in the marine industry.

Q: How big is the marine industry in Rhode Island? How many people does the industry employ? A: There are over 2,000 marine-related businesses in Rhode Island, which is nearly 10 percent of all private employers in the state. Rhode Island's marine industry accounts for \$1.6 billion in sales and provides 6,600 jobs. The state of Rhode Island has recognized the marine industry as a business sector targeted for long-term growth (along with construction, health care, information technology, and tourism). As a result, there is a growing effort to more fully develop the skilled workforce needed to keep one of the state's oldest manufacturing sectors alive and well.

Q: What types of jobs are available in the marine industry? A: Carpenters, electricians, electronic technicians, marine engine technicians (gas and diesel), machine operators, welders, riggers, varnishers, fiberglass & composite fabricators, metal & plastics workers, canvas makers, upholsterers, and yard hands are among the types of workers hired by boat builders, boat yards, and marine manufacturers.

Q: Can the skills used in other manufacturing jobs be applied to marine-industry jobs? A: Yes. Many of the same skills utilized in other manufacturing sectors can be applied to marine-industry jobs, although a combination of those skills with a basic understanding of marine systems is often needed. Plumbers, welders, electricians, painters, carpenters, machinists and auto mechanics are just some examples of the skills that can be transferred to marine careers.

Q: How do wages in the marine industry compare with wages in other sectors? A: Based on data collected in 2007-2008, the average salary in the marine sector in Rhode Island was \$39,400, which exceeds the average pay for all industries in the state.

Q: Is the work seasonal? A: Although the boating season in New England is largely focused on the summer months, the majority of jobs in the marine sector are year-round. At some companies—for example, a boat yard—the type of work done during the spring will differ from the type of work being done during the winter. However, many builders and manufacturers have a steady pace of year-round production.

Q: Is the demand for workers in the marine industry high? A: There has traditionally been a shortage of skilled workers in the marine sector. Based on a study done in 2007-2008, it is projected that an additional 2,400 workers will need to be trained in the next five to ten years. This projection is based on the long-term economic picture, already-planned development of marine facilities, and replacement of workers who will be retiring. As with any long-term projection, economic downturns are expected along with periods of growth. The Rhode Island Marine Trades Association (RIMTA) is dedicated to gathering the most current data.

Q: Why is the marine industry so strong in Rhode Island? A: Rhode Island provides an ideal setting for the marine industry. Narragansett Bay, with its many miles of coastline and ample space for boat yards and marinas, is an economic engine that drives the industry. As a result, Rhode Island has drawn a high concentration of marine businesses: boat builders, boat yards and marinas are here, as well as the businesses that supply the builders and yards, such as sail makers, rigging manufacturers, and canvas companies. The state also has a strong network of educational institutions with training programs tailored to the needs of the industry. The marine industry is further buoyed by Rhode Island's healthy tax policy that encourages people to buy and keep their boats in Rhode Island.

Q: How do I learn about job opportunities? A: For immediate job availability, NetworkRI—the job placement arm of the Rhode Island Department of Labor and Training—is often the best place to start. RIMTA also lists jobs on its workforce Website, www.boatsworkri.com. Career Days and industry open houses—coordinated by organizations such as IYRS (www.iyrs.org) and RIMTA (www.rimta.org)—are also good ways to talk to employers and learn about opportunities.



APPLICATION FOR IYRS CERTIFICATE PROGRAMS

ADMISSIONS POLICY

Students must apply to enter the Certificate programs. Admission to the programs is based on the applicant's desire and ability to complete the course of study. Previous experience is not required. Students are selected without regard to national or ethnic origin, race, sex, age, sexual orientation or religion and must be capable of benefiting from the training offered. Applicants must be seeking job training. All persons applying for admission must have completed high school or the equivalency and have the ability to understand written and oral instruction in the English language.

PROCEDURES

The Certificate programs have one start date in September each year. Applications are accepted year round. Our admissions committee reviews completed applications three times a year in December, March and July. In order to be considered by the admissions committee, applications must be received by **December 1, March 1 or July 1**. A completed application includes all of the required submissions listed below and an interview with a member of the IYRS admissions department.

All applicants are notified of their status after the admissions committee has reviewed their completed application. Once a class is full, accepted applicants are placed on a waiting list.

Your application must include the following:

- 1) A completed student application form.
- 2) An application fee of \$75 (check written to IYRS).
- 3) Two letters of reference, preferably from an employer or teacher. IYRS reserves the right to request additional letters of reference. The person writing your reference letter should be able to list how long and in what capacity they have known you. They should also be able to attest to your ability to work well with others, work ethic, and ability to commit to a project. Additional information or comments are welcome.
- 4) A completed medical authorization form.
- 5) Your official high school transcript, GED or college transcript. Transcripts can be obtained by calling your school and requesting they mail a copy to IYRS, 449 Thames Street, Newport, RI 02840, Attn: Academic Coordinator.
- 6) Applicant statements. The statements relate to why you wish to attend IYRS and what your goals are after completion of the program. You should feel free to provide additional information about your past experiences, projects, etc.

All questions related to the application or admissions process can be directed to the Academic Coordinator at 401-848-5777 x205.

INTERVIEW

Upon receipt of a complete application (containing items 1-6 listed above), you will be contacted to set up an interview. If you are unable to visit IYRS an interview may take place over the phone. However, a visit to the school is strongly recommended.

COMPLETED APPLICATIONS (containing items 1-6) should be mailed or delivered by hand to:

IYRS, 449 Thames Street, Newport RI, 02840, Attn: Academic Coordinator

Reference letters and transcript may be mailed separately. For additional information or to contact us, phone: 401-848-5777, x205; fax: 401-842-0669, Website: www.iyrs.org; email: admissions@iyrs.org.

More ►



APPLICATION FOR IYRS CERTIFICATE PROGRAMS

PROGRAM EXPENSES

The following table outlines the tuition and fees for the IYRS Certificate programs.

Program	Tuition	Fees	Additional Expenses
Boatbuilding & Restoration (20 Months)			
2010 – 2011	\$14,020	1st Year Students \$1400 shop and materials fee 2nd Year Students \$700 shop fee	\$1,350 approximate cost for tools and books
2011 – 2012	\$15,420	1st Year Students \$1400 shop and materials fee 2nd Year Students \$700 shop fee	\$1,350 approximate cost for tools and books
Marine Systems (9 Months)	\$16,990	\$925 shop fee and two-year membership fee to ABYC	\$1,500 approximate cost for tools, laptop and books
Composites Technology (9 Months)	\$16,990	\$2,200 shop and materials fee	\$1,500 approximate cost for tools, laptops and books

These fees are non-refundable. Fees and tuition are subject to change upon written notice. In addition to tuition and fees, students must expect to be self-supporting and purchase required tools, texts and computer equipment. A list of tools and textbooks can be obtained by contacting the Academic Coordinator at 401.848.5777 x205.

HOUSING

IYRS does not have on-site housing for students. A variety of local options are available to residential students. For assistance contact the office of the Academic Coordinator at 401.848.5777, x205.

FINANCIAL AID

IYRS can assist students seek financial assistance through various sources. IYRS scholarships are also available for those who qualify. Students applying for scholarship funds will need to submit their financial aid application. For more information on the financial aid options that are available, contact the Academic Coordinator at 401.848.5777, x205.

IYRS POLICIES AND PROCEDURES FOR STUDENTS WITH DISABILITIES

Students seeking accommodations for a disability are required to submit documentation to verify eligibility under the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. Disability documentation must adequately verify the nature and extent of the disability and detail the type of accommodations needed. Documentation should be submitted to the office of the Academic Coordinator at IYRS. All accommodations must be requested with reasonable advance notice. IYRS reserves the right to request more information if needed.

IYRS will provide reasonable accommodations where appropriate for students with documented disabilities. Eligibilities for accommodations will be determined on a case-by-case basis upon receipt of the documentation. IYRS however cannot make modifications that will substantially change the curriculum. All IYRS students are required to meet the evaluation standards. Students who are not satisfied with the accommodations made by IYRS may file a complaint with the School President.

ADDITIONAL INFORMATION

Once a student is admitted into the program, he or she will receive a student handbook, along with an enrollment agreement that must be filled out and returned to IYRS with a tuition deposit within 30 days of the date of their acceptance letter.

Any questions about the application procedure or program should be directed to the Academic Coordinator at 401.848.5777, x205. You may also email admissions@iyrs.org.



IYRS STUDENT APPLICATION FORM

Which Certificate Program are you applying for?

Date _____

Marine Systems Boatbuilding & Restoration Composites Technology

PERSONAL INFORMATION

First Name _____ M.I. _____ Last Name _____ Male / Female

Street Address _____

City _____ State _____ Zip _____ Country _____

Home Phone _____ Work Phone _____

Cell Phone _____ Email _____

Date of Birth (month/date/year) _____ Social Security Number _____

Next of Kin/Contact _____ Relationship _____

Street Address _____

City _____ State _____ Zip _____ Country _____

Home Phone _____ Work Phone _____

Cell Phone _____ Email _____

Are you a veteran of the USA Armed Forces or on active duty? Veteran Active Service Branch _____

EDUCATIONAL INFORMATION

I certify that I have successfully completed the following: High School Post Secondary School GED

High School: Name of current/last high school _____ Graduation date _____

Address of current/last high school _____

GED Graduate: Date of completion _____

College/University: Name of current/last college/university _____ Graduation date _____

Address of current/last college/university _____

WORK EXPERIENCE

What is your current occupation? _____

Please list any work experience to date starting with the most recent (include part-time and summer jobs). If you have a resume, please attach it with your application.

Employer	Dates (From-To)	Job Title and Duties
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



IYRS STUDENT APPLICATION FORM

APPLICANT'S STATEMENTS

Instructions: Provide your responses to the statements and questions listed on this form. You may use this form or attach a separate response generated electronically.

1. How will successful completion of the program support your career and personal goals?

2. What activities and experiences have you had that have prepared you to be a productive contributor in the program? (For example, projects, team participation, employment, hobbies, volunteer work or other activities that you have experienced.)

3. Successful involvement in the IYRS programs does not require experience but students need to be able to measure, compute basic math functions, follow written and verbal directions, meet deadlines and assume self-responsibility for achieving good quality results. Discuss the projects and experiences that specifically demonstrate your skills and competencies related to the above. (For example, building projects, employment, school, volunteer work or other activities.)

ADDITIONAL INFORMATION

1) How did you hear about IYRS? _____

2) What is your main interest in the IYRS program (e.g., develop career, career change, general interest?)

3) What other schools, if any, are you considering? _____



MEDICAL AUTHORIZATION

Name: _____

Emergency Contact Name/Relationship: _____

Home Address: _____

Phone (Daytime): _____ (Evening): _____

Email: _____

Second Emergency Contact Name/Relationship: _____

Home Address: _____

Phone (Daytime): _____ (Evening): _____

Email: _____

Are you under the care of a physician? Yes No If yes, please explain. _____

Do you have any allergies? Yes No If yes, please explain. _____

Are you taking any medications? Yes No If yes, please explain. _____

Additional Health Information: _____

Insurance Company: _____

Address: _____

Policy Number: _____

I hereby give permission to the medical personnel selected by the International Yacht Restoration School to order x-rays, routine tests, treatment and necessary transportation for me in the event of a medical emergency.

Student Signature: _____ Date: _____



FEDERAL FINANCIAL AID FACT SHEET

The following provides a brief summary of the financial aid available at IYRS. For more detailed information, contact the IYRS Financial Aid Office, 401-848-5777, x205, admissions@iyrs.org.

STUDENT ELIGIBILITY

To receive Federal Financial Aid, you must meet all of the following criteria:

- Have financial need, except for some loan programs
- Have a high school diploma or GED
- Be enrolled or accepted for enrollment as a regular student working towards a degree or certificate
- Be a U.S. citizen or eligible non-citizen
- Have a valid Social Security Number
- Fill out the Free Application for Federal Student Aid (FAFSA)

IYRS participates in the following Federal Financial Aid Programs:

Federal Pell Grant

A Federal Pell Grant, unlike a loan, does not have to be repaid. Pell Grants are awarded based on need, only to undergraduate students who have not earned a bachelor's or a professional degree. The maximum award for the 2010-11 award year (July 1, 2010 to June 30, 2011) is \$5,350. The maximum can change each award year and depends on program funding. The amount you receive will depend on your financial need, the costs to attend school, and your status as a full-time or part-time student.

Direct Stafford Loan Program

Stafford Loans are available both as subsidized and unsubsidized loans. Subsidized loans are offered to the student based on demonstrated financial need. The interest on subsidized loans is paid by the Federal government while the student is in school, during the grace period, and during authorized deferment. For unsubsidized Stafford Loans, the student is responsible for all of the interest that accrues while enrolled in school. The interest may be deferred throughout enrollment. Unpaid interest that is deferred until after graduation is capitalized (added to the loan principal.) The interest rate on the loan is variable, but will not exceed 8.25%. There is an origination fee charge on the loan.

Loan repayment begins at the end of the student's grace period. The grace period is 6 months after the student graduates or leaves school, although loan payments can be made at any time.

Federal Stafford Loan		Subsidized	Unsubsidized	Total
Dependent Student	1st year	\$3,500	\$2,000	\$5,500
	2nd year	\$4,500	\$2,000	\$6,500
Independent Student	1st year	\$3,500	\$6,000	\$9,500
	2nd year	\$4,500	\$6,000	\$10,500

SPECIAL NOTE

For the 2010-2011 academic year, you are an independent student if you meet one of the following criteria. (Otherwise you are a dependent student).

- You were born before January 1, 1987.
- You are married.
- You have children or dependents that receive more than half their support from you.
- You are a veteran of the U.S. Armed Forces or currently on active duty.



FEDERAL FINANCIAL AID FACT SHEET

PLUS LOANS (PARENT LOANS)

Plus Loans enable parents with good credit history to borrow money to pay for the education expenses of a dependent student. The yearly limit on a Plus Loan is equal to the cost of attendance minus any other financial aid received. Parents will pay fees of 4% of the loan. Repayment of a Plus Loan begins right away. Parents will be required to sign a promissory note, a binding legal document that lists the conditions under which you are borrowing and the terms under which you agree to repay your loan. The interest rate on a Plus Loan is variable but will never exceed 9%.

IYRS SCHOOL CODE

You will need to list the International Yacht Restoration School and our school code 037323 on your FAFSA.

HELPFUL WEBSITES

FAFSA on the Web: www.fafsa.ed.gov

Help on completing the FAFSA: www.studentaid.ed.gov/completefafsa

U.S. Dept. of Education Financial Aid: www.FederalStudentAid.ed.gov

OTHER TYPES OF FINANCIAL AID

For information regarding institutional scholarships or Veterans Benefits, please contact the IYRS Financial Aid Office, 401-848-5777, x205, admissions@iyrs.org.



ESTIMATED COST OF ATTENDANCE AND FINANCIAL ASSISTANCE 2010 - 2011

ESTIMATED COST OF ATTENDANCE

The following table outlines the estimated cost of attendance for the programs at IYRS. The cost consists of tuition, fees, and tools, as well as estimates for living expenses. Cost of attendance is used to calculate Federal student aid awards. It also provides you with the financial information to develop your own budget.

	Boatbuilding & Restoration		Marine Systems	Composites Technology
	Year One	Year Two		
Tuition	\$14,020	\$15,420	\$16,990	\$16,990
Fees	\$1,400	\$700	\$925	\$2,200
Tools and Books	\$1,350	--	\$1,500	\$1,500
Living Expenses	\$10,600	\$10,600	\$10,600	\$10,600
Transportation	\$2,800	\$2,800	\$2,800	\$2,800
Personal	\$2,150	\$2,150	\$2,150	\$2,150
Total Cost	\$32,320	\$31,670	\$34,965	\$36,240

ESTIMATED FINANCIAL ASSISTANCE FOR QUALIFIED STUDENTS

The following outlines the estimated aid available through Federal financial assistance programs and IYRS need-based scholarship awards. You must complete the Free Application for Federal Student Aid (FAFSA, www.fafsa.ed.gov) to determine qualifying amounts. Please refer to the IYRS Federal Financial Aid Fact Sheet for more details on Federal financial aid and information on how to apply.

	Stafford Loan (Maximum)	Pell Grant (Maximum)	IYRS Need-Based Scholarships
Year 1	Independent \$9,500 Dependent \$5,500	\$5,350	\$500-\$3,000
Year 2	Independent \$10,500 Dependent \$5,500	\$5,350	\$500-\$3,000

For information on State and other financial aid programs and options, please contact the IYRS Financial Aid Office at 401-848-5777, x205, admissions@iyrs.org.