APPRENTICE FOR A DAY
Shipyard Programs

PROGRAM GUIDE
1. **DEMONSTRATIONS**
Throughout the year, CBMM will demonstrate various building techniques and projects in the boatshop, corn crib, sail loft, or Van Lennep Auditorium.

2. **WORKSHOPS**
Programs lasting one day or more in which participants learn particular skills, usually bringing home an object they’ve built.

3. **INTENSIVES/VISITING MASTERS**
Three- to seven-day programs in which participants learn particular skills from a master in the field.

4. **CUSTOM SHIPYARD PROGRAMMING**
Held in the boatshop, corn crib, and/or on the water, this half-day, full-day, or week-long program is custom-designed just for your group.

5. **ON-THE-WATER EXPERIENCES**
Seasonal programming using CBMM’s small craft.
1. DEMONSTRATIONS

ARTS OF THE SAILOR
This series of demonstrations, offered throughout the year, includes sail making, sail repair, marlinspike seamanship techniques, and construction of a sailor's ditty bag.

BOATING ESSENTIALS (FALL/WINTER)
Participants will gain knowledge and confidence in reading charts, understanding navigational aids, plotting courses, proper anchoring, knot tying, what to do in emergencies, and other helpful information for anyone who spends time aboard a boat.

BYOB - BRING YOUR OWN BOAT (SUMMER)
CBMM shipwrights will be on hand to assess and provide guidance on how to repair your small craft, or help you decide if it is worth repairing.

BYOM - BRING YOUR OWN MOTOR (SPRING)
CBMM’s marine mechanic will give your outboard motor a once over, diagnosing any mechanical problems, and providing an assessment.

CHART NAVIGATION (FALL/WINTER)
This course is designed to teach participants the steps needed to plan a cruise using navigation charts, which includes plotting courses to safely pilot a boat from one place to another. Boaters interested in being more proficient in navigation will learn techniques to determine a boat’s location without the use of electronic aids.
DECOMMISSIONING YOUR ENGINE - INBOARD AND OUTBOARD
(FALL) Learn how to properly winterize your boat’s engine and prepare it for cold weather.

ELECTRONIC NAVIGATION (FALL/WINTER)
Participants will be given short non-technical descriptions of how GPS, GPS chartplotters, radar, depth sounders, and automated identification systems work.

RECOMMISSIONING YOUR ENGINE - INBOARD AND OUTBOARD
(SPRING) Learn how to check your engine’s running condition and temperature, ignition, and starting systems, and learn how to replace the engine’s fuel filter.

TOOL SHARPENING (SUMMER)
Learn the basic techniques to put a mirror finish on your aging tool collection. This workshop covers the proper preparation, sharpening, and honing of hand plane irons, chisels, gouges, and other carving tools.

2. WORKSHOPS

BLACKSMITHING (FALL)
Join visiting masters and CBMM shipwrights in learning the techniques of tool repair, and drawing out material to make forged items. Each participant will go home with a piece they have forged.

BOAT SHOPPING 101 (SPRING)
Are you a first-time boat owner or want to be one? In this Q&A session you will learn some of the most important things to look for when buying a boat.
**BRIGHTWORK** *(SPRING)*  
Participants will get first-hand experience in properly preparing surfaces by sanding and/or stripping painted or varnished areas. Learn proper techniques to address problem areas, and how to apply varnish or paint to prepared surfaces.

**FAMILY BOATSHOP**  
Looking for a unique family experience? Join CBMM shipwrights throughout the year in the boatshop for take-home woodworking projects. This program is for ages 10 and up. Children must be accompanied by an adult.

**FUNDAMENTALS OF BOATBUILDING**  
Throughout the year, CBMM shipwrights teach various boat building techniques. Workshops include (but are not limited to) pulling lines, lofting, mold making, spilling planks, steam bending, milling lumber, making scarfs, and spar building.

**INTRO TO WOODWORKING** *(SUMMER/FALL)*  
Participants will go home with a basic knowledge of how to safely use shop tools, read plans, buy lumber, and successfully complete a project.

**NAMEBOARD BASICS** *(SUMMER/FALL)*  
Learn the basic skills necessary to carve a nameboard. Each participant will take home their own carving.

**OPEN BOATSHOP** *(MONTHLY)*  
Have an idea for a woodworking project but don’t know where to start or don’t have the tools you need? Come to the boatshop to work on these projects, under the guidance of one of CBMM’s experienced shipwrights.
PADDLE WORKSHOPS (SUMMER/FALL)

GREENLAND
Craft a custom paddle based on the 1,000 year old Inuit design. These paddles are known for their sleek and narrow design, measuring about the width of the kayaker’s shoulders, with a blade less than four inches wide that tapers to the loom.

TRADITIONAL
Craft a traditional “Euro spoon” laminated cedar and paloma paddle with stainless steel ferrules.

SUP
Learn basic stand-up paddle construction skills, including bent shaft lamination and shaping.

KRENOV-STYLE PLANE MAKING (SPRING/FALL)
Participants will learn the parts of the plane while working through the sequencing of cutting parts, gluing up, shaping the plane to fit them, tuning the throat, and sharpening the blade. Each participant will go home with a working plane.
WOMEN’S WOODWORKING (SUMMER/FALL)

PART ONE
Learn the basics of woodworking while safely learning how to use both power and hand tools. Participants will learn how to read plans, create a cut list, mill the necessary wood, and laminate and fine tune their piece. Each participant will go home with their own handmade mallet and the confidence to work on projects of their own.

PART TWO
This intermediate workshop will teach participants how to build a stool, focusing on the importance of layout and precise joinery, while deepening their understanding of woodworking. Each participant will go home with their own handmade stool.

3. INTENSIVES

METAL CASTING (SPRING)
Join nationally renowned sculpture artist and Shepherd University professor Christian Benefiel as he guides you through the intricacies of casting bronze and aluminum, including creating molds, working the sand and furnace, and pouring molten metal.

TIMBER FRAMING (FALL)
Under the guidance of Grigg Mullen, participants will learn this age old building technique by laying out a building plan, hand cutting all mortise and tenon joints, and erecting the structure.

4. CUSTOM SHIYARD PROGRAMS

(YEAR-ROUND) Custom tailored programming for your individual group. Week-long, half- or full-day, or hourly programming available. Projects can vary from woodworking or blacksmithing to on-the-water activities.
5. ON-THE-WATER EXPERIENCES

LIVERY (JUNE–OCT)
Small wooden sailing skiffs, kayaks, and rowboats are available for daily or hourly rentals. Prices vary per vessel for CBMM members and non-members.

SAILING LESSONS (JUNE–OCTOBER)
Hourly or daily sailing lessons available select days on one of CBMM’s small craft.

PADDLING WITH THE PRESIDENT (JUNE–OCTOBER)
Join CBMM President Kristen Greenaway for an evening paddle on the Miles River and a demonstration of how to use a Greenland paddle. Greenaway is a frequent participant in the annual WaterTribe Everglades Challenge, a 300-mile, day/night small craft paddle from Tampa, Fla., to the Florida Keys.

GUIDED PADDLES (JUNE–OCTOBER)
Join rotating guides as you explore St. Michaels and its surrounding waterways.
OUR INSTRUCTORS

JENNIFER KUHN
Shipyard Programs Manager

Jenn is a graduate of Seattle Central Community College’s marine carpentry program. Before coming to CBMM, she worked for Native Brightworks, Seven Seas and Seattle Shipwrights. Jenn was looking for an opportunity to relocate back to the East Coast when she joined CBMM as a shipwright apprentice in 2011. A year and half later she took over CBMM’s Apprentice for a Day program, and all other shipyard programming.

John Aiken

John’s love of woodworking began as a teenager when he worked at a cabinet shop in Plainfield, Ind. After a 39-year career as an auto designer with the Ford Motor Company, he and his wife, Glory, moved to Easton. Aiken has been volunteering with CBMM in the shipyard since 2012, accruing more than 1,000 hours. His main focus has been on building stitch-and-glue kayaks, and fabricating Greenland, conventional, and stand-up custom laminated paddles.
Christian Benefiel
Christian is a renowned sculptor who splits his time between making and exhibiting work, and teaching sculpture and drawing at Shepherd University in Shepherdstown, WV. Benefiel is the recipient of the Lois Roth Endowment Award, Maryland State Arts Council individual artist grant, J. William Fulbright Postgraduate Research Grant, Oliver Award, and Hamiltonian Fellowship. He has been an artist-in-residence at CBMM, the Pirkkala Sculpture Park, the Jackson County Green Energy Park, and the Finnish Academy of Fine Art, as well as in traditional art spaces. Benefiel lives in western Maryland with his wife and son.

Joe Connor
Joe is a 2006 graduate of the Landing School in Arundel, Maine’s, boatbuilding program, and is a U.S. Coast Guard 100-Ton licensed captain. Before joining CBMM, he was employed with Scarano Boat Building of Albany, N.Y., as a builder and a captain. Currently a master shipwright at CBMM, Joe is also co-owner of Old World Trading, a sawmill and wood products business based in Pioneer Point, Md.

James DelAquila
James is a shipwright at CBMM, concentrating on woodworking and maintenance of its floating fleet of historic vessels. After graduating from the International Yacht Restoration School in 2014, DelAquila apprenticed at CBMM, worked for a local restorer, and has since re-joined CBMM. He and his wife now live in Stevensville.
Morris Ellison

Morris is a native of Oxford, Md., who earned a Master of Philosophy in neurophysiology from Yale University. He enjoyed sailing so much that he ended up designing sails and managing the loft at North Sails for several years, instead of following in the direction of his education. In 1979, he launched Ellison Sails, a sail and boat canvas shop in Easton, Md. Over the past 30 years, he has sailed on most of the Chesapeake Bay racing log canoes, and has made sails for nine of them.

Jerry Friedman

A retired electrical engineering executive, Jerry Friedman has held a U.S. Coast Guard Captain’s License for 60 years. During that time, he has also operated an emergency service towboat for BoatUS, assisting boaters along the Chesapeake Bay in distress, delivered boats around the Chesapeake and from Florida and Long Island to Annapolis, taught navigation courses, edited a monthly professional captains’ publication, and provided instruction to boat owners in the operation of their boats. He currently holds a 100-Ton Master Captain’s license and serves as the volunteer lead captain for CBMM’s 1920 buyboat Winnie Estelle.

Michael Gorman

Michael, CBMM’s shipyard manager, shipwright, and lead of the Edna E. Lockwood restoration, is a graduate of the Landing School in Arundel, Maine’s, boatbuilding program. Gorman is an avid sailor and Eastern Shore enthusiast, who lives in St. Michaels with his wife and two daughters.
Grigg Mullen
Grigg got involved in timber framing in 1994 as a craftsman, engineer, rigger, and event organizer. Since that time, he has worked on numerous projects in both the U.S. and U.K. He joined the Timber Framers Guild in 1994, served three terms on the TFG board of directors, and is a founding and current member of the Timber Framing Engineering Council. As a professor of civil engineering at Virginia Military Institute, Grigg has lead more than 30 community service projects with students and community volunteers.

Josh Richardson
A native of the Eastern Shore, and CBMM's marine mechanic, Josh has 16 years of experience working in marine mechanics. He served as a heavy equipment mechanic while enlisted in the United States Marine Corps, and is a graduate of the Marine Mechanics Institute of Orlando, Fla.

Richard Scofield
Richard started working in boatyards as a rigger at the age of 12, and has spent the majority of his life building, restoring, and sailing wooden boats. He has worked at CBMM in a variety of roles, including shipwright, rigger, shipyard manager, and as the assistant curator of watercraft.
OUR INSTRUCTORS

**Todd Taylor**
Todd, director of CBMM’s Charity Boat Donation Program, oversees the donation and resale of more than 200 boats per year of all shapes, types, and sizes. His extensive knowledge of boats and the boating industry stems from a lifetime of messing about on boats, and a career as a yachting professional. Prior to joining CBMM, he worked as sales director for a premier U.S. builder of luxury performance motor yachts, and as a professional yacht broker. His love of boats led him to the yachting industry at a young age, first as crew and ultimately as captain. He earned his first U.S. Coast Guard Captain's license at the age of 18.

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**Ed Thieler**
Ed is a retired orthopaedic surgeon, and expert model builder and carver. Moving to the Eastern Shore 20 years ago lead him to building models of Eastern Shore work boats, and carving many trailboards and eagle figureheads for skipjacks.
REGISTERING FOR AFAD COURSES

Please visit cbmm.org or call Shipyard Programs Manager Jenn Kuhn at 410-745-4980 for more information concerning course dates, times, and cost. Shipyard courses are subject to change year to year, with registration required by visiting cbmm.org/shipyardprograms.

REFUND POLICY

Course participants may withdraw from a course and apply for a refund in writing up to one week prior to the course being held. Refund requests should be directed to Iseeman@cbmm.org. In the unlikely event of a course cancelation, CBMM will refund the cost of the course.

WHAT TO EXPECT

Participants are expected to wear closed-toe shoes for all programs held in the boatshop. The boatshop does not have an HVAC system, so please dress accordingly for the weather outdoors. All personal protective equipment, materials, and tools are provided unless otherwise noted. We encourage participants to bring a bag lunch for all workshops and intensives.

CBMM’S WORKING SHIPYARD

The Shipyard creates anew the tradition of a working waterfront. CBMM’s shipwrights and apprentices are a tangible connection to the Chesapeake’s rich story of boatbuilding through:

• Preservation and maintenance of CBMM’s floating fleet of Chesapeake Bay boats and its historic small boat collection
• A working marine railway for hauling and launching large historic vessels
• Presence and preservation of visiting traditional wooden vessels
• Hands-on shipyard education programs