



CHESAPEAKE BAY MARITIME MUSEUM



APPRENTICE FOR A DAY

Shipyard Programs



PROGRAM GUIDE



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Shipyards Programs



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213 N. Talbot Street, St. Michaels, MD 21663

410-745-2916 | cbmm.org

PROGRAM CATEGORIES

1. DEMONSTRATIONS

Throughout the year, CBMM will demonstrate various building techniques, projects, and project updates virtually via Zoom and in person in the boatshop, corn crib, sail loft, or the 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

Guided group paddles with ACA certified staff

1. DEMONSTRATIONS

ARTS OF THE SAILOR

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

BOATING ESSENTIALS

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.

DECOMMISSIONING YOUR ENGINE - INBOARD AND OUTBOARD

(FALL) Learn how to properly winterize your boat's engine and prepare it for cold weather.

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

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.



BUILD A TRADITIONAL SEA CHEST

In this four-day workshop, led by retired VMI professor Grigg Mullen, participants will have the opportunity to hone their woodworking skills through constructing their very own 19th century sea chest. The construction of this sea-chest focuses heavily on using hand tools to create the beveled dovetail joined ends and sides.

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

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

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

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

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 or an adirondak chair, 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

MARINE WELDING SPECIAL TOPICS

In this seven-session special topics CTE 360: Marine Welding course, participants will gain a deep understanding of the marine welding processes, understanding the environmental and process-based concerns associated with welding in a marine environment while learning the basics of GMAW (MIG) and GTAW (TIG) processes. Through these sessions, students will explore different ferrous and non-ferrous metals, focused on steel, stainless steel, aluminum, and copper-based alloy while gaining understanding of galvanic scale, different metals, and degradation above and below the waterline.

METAL CASTING (SPRING/FALL)

Join nationally renowned sculpture artist Christian Benefiel as he guides students through the intricacies of casting iron, bronze and/or aluminum, including creating molds, working the sand, setting up the furnace and pouring molten metal.

JAPANESE BOAT BUILDING:

In this weeklong Japanese boat building intensive, led by Douglas Brooks, participants will be introduced to boatbuilding design, tools, and techniques completely different from those used in the West. As a group students will build a traditional Japanese river boat called a honryousen, (literally, "typical fishing boat") from the Shinano River. No woodworking experience is necessary, and all the required Japanese boatbuilding tools will be provided. Through this course participants will be introduced to the Japanese way of design, sharpening, and tool use.

TIMBER FRAMING

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 SHIPYARD 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 EXPERIENCE

GUIDED PADDLES (MAY–OCTOBER)

Join ACA certified CBMM staff for paddles exploring St. Michaels and its surrounding waterways. Options include new to paddling Clinics, evening, and full moon paddles.

OUR INSTRUCTORS



Jennifer Kuhn

Shipyard Education Programs Manager

Jenn Kuhn 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. Kuhn was looking for an opportunity to relocate back to the East Coast when she joined CBMM as a shipwright apprentice in 2011. In 2013 she took over CBMM's public facing, Apprentice for a Day Shipyard Programs and in 2019 she began managing CBMM's four-year Shipwright Apprentice Program.



Christian Benefiel

Christian Benefiel is the Director of Welding and Fabrication at Chesapeake College, and a sculptor who splits his time between teaching, making and exhibiting work. 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 on the Eastern shore of Maryland with his wife and son. To see some of his work visit: christianbenefiel.com/section/862.html and www.731sculpture.com.



Douglas Brooks

Douglas Brooks work is focused on the appreciation and continued use of traditional wooden boats, and the preservation and sharing of the skills and knowledge needed to build wooden boats. These include American and English boat types, as well as the small boats of Japan. In 1996 Brooks, apprenticed with a boatbuilder in Japan, Mr. Koichi Fujii, the last professional builder of taraibune, or tub boats on Sado Island. This research formed the basis of his first book. Brooks has now apprenticed with seven boatbuilders from throughout Japan, most recently in 2017, building eight types of boats. He is the sole apprentice for six of his seven teachers. Brooks has gone on to publish three more books on this subject, including his latest Japanese Wooden Boatbuilding, the first comprehensive survey of the craft published in any language.



Christian Cabral

A graduate of the University of San Francisco, Christian Cabral holds a bachelor's degree in U.S. history, with a minor in philosophy. A majority of his professional career has been spent on the water, starting with an apprenticeship with boatbuilder, Gannon & Benjamin Marine Railway. He later followed his father and brother and began working on sail training/charter vessels operated by Black Dog on Martha's Vineyard. Since then, Cabral has worked onboard a variety of vessels both commercial and private, managed a charter business and, served as mate and captain onboard an 82' schooner built by Gannon and Benjamin. He joined CBMM as the Shipyard Manager in 2018 and most recently was promoted to Vice President of the Shipyard.

OUR INSTRUCTORS



Med Chandler

Med Chandler, Owner and Blacksmith of Ship's Coy Forge uses the hammer and anvil as his main tools. Chandler has a background in museum reproductions and traditional shipbuilding, which has provided him with the experience and excitement to complete whatever project his clients have. Chandler specializes in forging tools, hardware and historical reproductions. Ship's coy forges' main goal is to supply people who have high standards with tools and hardware to meet those standards. He is proud of the fact that they focus on historical methods of blacksmithing, incorporating old designs and techniques into new, original pieces.



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.



Sam Hilgartner

Sam Hilgartner came to CBMM in 2018 from the Argues School of Traditional Boatbuilding in Sausalito, Calif., where he was an apprentice and an instructor.

His work experience includes four years with the National Park Service at the San Francisco Maritime National Historical Park, and time spent as a professional rigger in New England and the Netherlands. He also holds a 100-ton master's license. Hilgartner enjoys sailing and has spent time aboard tall ships like *Pride of Baltimore II* and *Picton Castle*. His volunteer experience includes work at Oakland Free University and the Bay Area Public School.



Grigg Mullen

Grigg Mullen 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 led more than 35 community service projects with students and community volunteers.



Jeff Reid

Jeff Reid apprenticed in the art of traditional wooden boatbuilding after earning a science degree in wood products engineering. He has spent this millennium applying those skills to earn a living in both northern

and southern hemispheres. Presently a resident of Maryland's Eastern Shore, Jeff is enjoying learning what the local trees have to offer.

OUR INSTRUCTORS



Josh Richardson

A native of the Eastern Shore, 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 Scofield started working in boatyards as a rigger at the age of 12, and has spent most of his life building, restoring, and sailing wooden boats. He spent 20 plus years at CBMM in a variety of roles, including shipwright, rigger, shipyard manager, and as the assistant curator of watercraft. Now retired he enjoys working in his own shop, volunteering and teaching the occasional class at CBMM.



Kendall Wallace

Kendall Wallace is an educator, sailor, and cyclist who has been with CBMM since 2020. Raised in New England, Kendall attended the University of New Hampshire and is a graduate of the Outdoor Education program. Kendall is the Workshop Education Manager for CBMM, leading educational initiatives such as after-school boatbuilding programs and summer camp workshops. Kendall enjoys sailing small boats, riding his bike to work, and spending time with his family.

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 registration@cbmm.org. In the unlikely event of a course cancellation, 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



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