



Marine Construction Technology



a boat is a vessel
that travels over
water with the use
of oars, sails or an
engine





In the **Marine Construction Class**, we teach the skills and processes needed to build a boat – but not just *any* boat, **YOUR Boat!**



Marine Tech 1 Projects



Half Hull Modeling



CNC Router Projects

WOODPLANS SHOP TESTED

<http://www.woodonline.com>

Nautical Knickknack Shelf

Looking for the perfect home accent to match your seafaring tastes? How about our novel boat shelf? Designed by Jim Shotwell, an accomplished boat-builder and woodworker from Nescopeck, Pennsylvania, this folk art project lets you display a variety of unique collectibles—from antique fishing reels to miniature lighthouses. Jim refers to his boat shelf as the “Pooles Island Skiff.”



Let's begin with the curved-sided boat bottom
Note: This project requires several thicknesses of mahogany and ash. Plane or resaw your own stock, or see the Buying Guide for our source of a hardwood kit.

- 1 Cut the bottom blank (A) to the size listed in the Bill of Materials from 3/4" stock (we used mahogany; 3/4" mahogany plywood would also work).
- 2 Working on the bottom side of the bottom blank (A), mark the transom (B) and shelf locations (C, D). See the Bottom drawing on the Parts View on pages 8 and 9 for reference. Now, mark the four nail-hole centerpoints for bending the fairing strips against in step 4. The fairing strip (a thin bendable piece of wood) allows you to mark a long smooth curve.
- 3 Cut a strip of wood to 1/4x1/2x48" for use as a fairing strip.
- 4 Drive the nails about 1/4" into the bottom blank at each marked nail centerpoint dimensioned on the bottom (A) of the Parts View drawing. Bend the fairing around the outside of the the nails, and clamp the ends of the strip to the bottom blank where shown in photo A. Now, mark a line along the inside edge of the strip as shown in photo A. Remove the nails and repeat the process to mark the opposite edge.
- 5 Mark the screw-hole centerpoints on the bottom side of the blank for attaching the transom and shelves later. Drill a counterbored screw hole through each screw-hole centerpoint.

Knickknack Shelf



Laser Engraving projects



To Tech 2 and Beyond!

Once you have mastered the skills and processes in Marine Tech 1 successfully and would like to continue on a larger marine-related project, you can opt for an advanced level of Marine Technology. This class is normally for juniors and seniors. Some of the projects we've constructed in the past are Kayaks, Racing Boats, Fishing Boats, Stand Up Paddle Boards and even a rowing Shell.

