

Training instruction plan: **Sawing a plank**

Module number: A 01 a

Last update: 11.09.14

Credits: ... points









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Introduction	
<p>Description of the subject</p> <p>Sawing a plank consists in taking the shape of a missing planking on the hull of a ship in order to remake it. Infrastructure requirements: a shipyard workshop</p>	<p>Required knowledge/skills</p> <ul style="list-style-type: none"> - basic wood skills - understand the safety implications <hr/> <p>Infrastructure requirements</p> <ul style="list-style-type: none"> - Clean and clear working environment

Objectives
<p>At the end of this module, the trainee can:</p> <ul style="list-style-type: none"> - Spile a plank (take its shape) - Saw a plank - Fit a plank

Sources and additional learning material

Required tools, machines and material


			
Spiling compass	Spiling batten or a flexible plywood batten	Ruler	Spikes, boat nails
			
Tape-measure	Set square	Hammer	Pencil
Plane	Hand-held powered fretsaw/band saw or a buzz saw	Small nails	Hollowing plane


More information?

KNOWLEDGE


Terms	Definition - Description - Explanation
Spiling compass	Compass which tips are folded outwardly
Spiling batten	Flexible batten used to spile the planks. It will be used as a template for the planking.
Hand-held powered fretsaw	Thin blade of a band saw accepting the deforming stress in order to cut curves.
Spiling	Defining the shape of a plank directly on the structure in order to develop it as a plan on the wooden plank on which it will be cut out.
Hollowing plane	Plane which iron is rounded in order to hollow the planking to give it the shape of the frame.
Boat nail	Type of nail with a square shaft used in naval carpentry.

SKILLS


Step 1:		
Content	Key points	Visual aids
Copy the height of the upper planking on the frame.		

Step 2:		
Content	Key points	Visual aids
Set up of the rail which will give a straight line of the bottom of the plank.	Text	


Step 3:

Content	Key points	Visual aids
Start the spiling: you need to install a plywood batten that approximately fits the shape of the plank.		


Step 4:


Content	Key points	Visual aids
Determine a reference scarf using a compass, then you copy it on the plywood slab starting on the upper plank and then on the bottom plank.		


Step 5:


Content	Key points	Visual aids
Copy, with that same reference, every dimension on the spiling batten.		

Step 6:


Content	Key points	Visual aids
Cut out the oak board, following the outline.		

Step 7:		
Content	Key points	Visual aids
<p>The bevelling: measure the angle formed by the side of the upper planking with the frame, and you copy it on our plank.</p> <p>Also take the value of the ring of the frame in order to hollow, with the hollowing plane, the plank so it will perfectly fit in the frame.</p>		

Step 8:		
Content	Key points	Visual aids
<p>Set up of the plank with clamps (if the curve is too marked, the plank is steamed).</p>		

Step 9:		
Content	Key points	Visual aids
<p>Determine the pre-drilling mark to hammer the boat nail.</p>		

Step 10:

Content	Key points	Visual aids
Drill the plank.		

Step 11:

Content	Key points	Visual aids
finish by hammering the heads of the boat nails.		