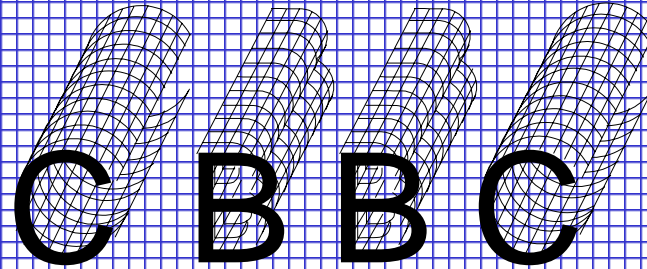


ABYC  
**ABYC**  
Laminator

&



**Composite Boat Builder Certification**

IBEX  
**Exhibitor Workshop**  
October 26, 2004

## *Composites Training*

### *Why, Who, When, How, What, How, & Where*

Why is training needed?

Who needs training?

When should training begin?

How should employees be trained?

What training programs are offered?

How can you afford training?

Where can you get training?

## *Why is training needed?*

As the industry adopts new technology, be it open or closed molding, worker training becomes key to successful production.

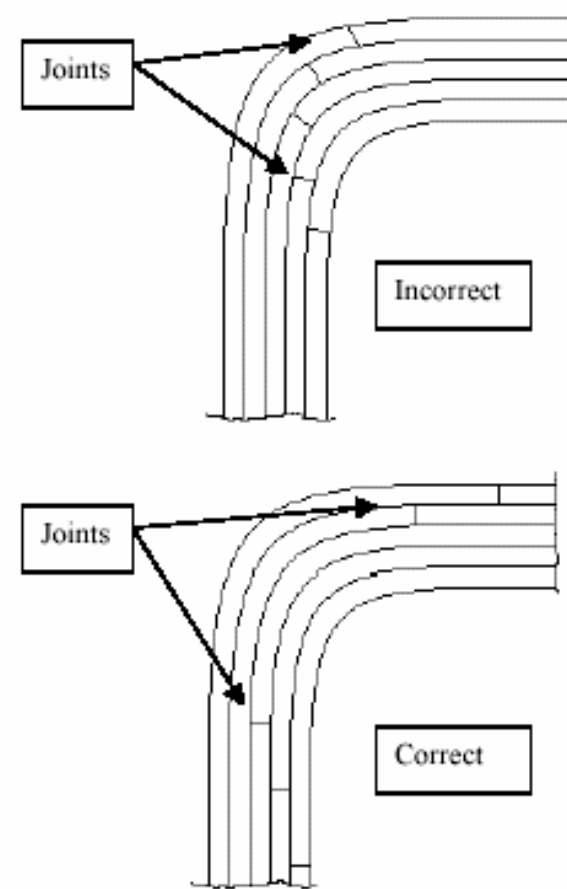
Lamination crews, supervisors, engineering and quality control personnel all need to fully understand each and every step of boat building and the consequences of improper fabrication.



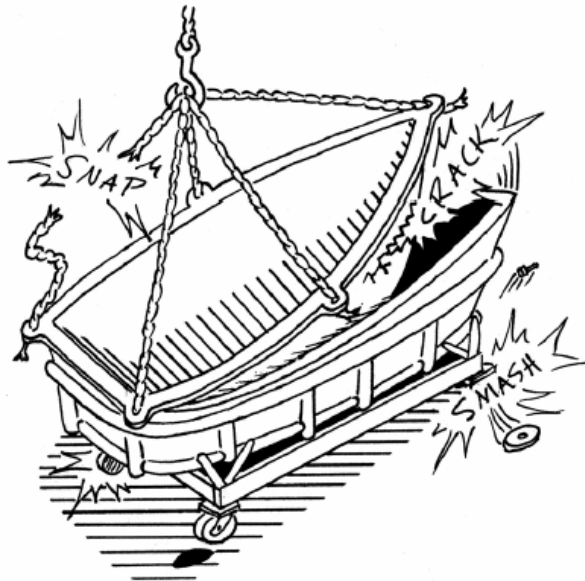
*Nothing like doing a job right the first time. Think about how much time and money is spent in rework.*

## *Classic Example*

A mistake that could easily be fixed if the employee was told why one way is correct and the other is not.



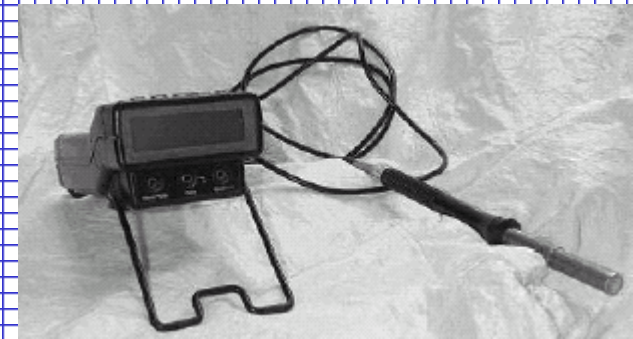
*Has this ever happened to you?*



## *Who needs training?*

Every one from the most green shop employee to the supervisors and even engineers would greatly benefit from these courses.

We can say this because we've have had all of these titles in one class or the other. There wasn't one person who did say, "Wow, I never knew that."



Digital humidity and temperature probe

During class, students are already talking about how they can apply what they've learned.

## *When should training begin?*

Currently, most new employee training occurs when an old salt teaches the green hands. The problem is, the old salt has only been in the business for a year or two and didn't know how to do it right the first place.

Training needs to begin as soon as employees pass their probationary phase.



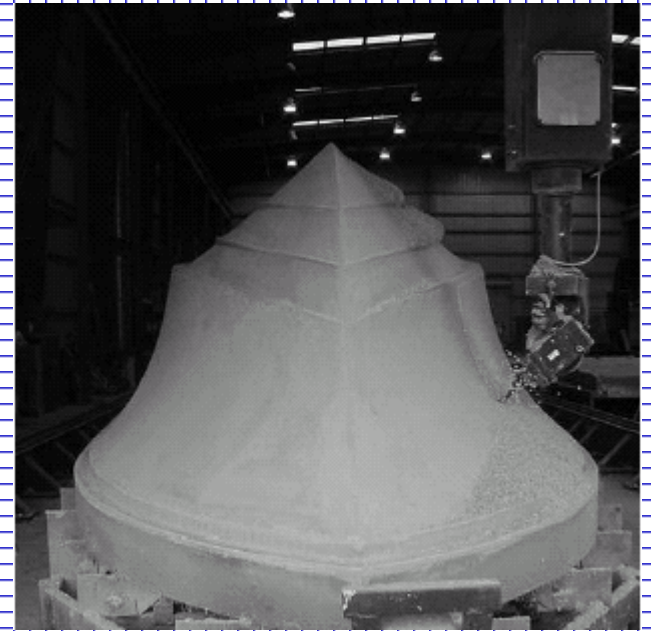
Gel Time Testing with Paper Clip

## *How should employees be trained?*

There is no replacement for a formal training process.

One of the first things we say in a class is “No one has any stripes in here.”

Our classroom environment fosters cooperation and dissolves the traditional stripe system.



*Courtesy of VMI Vectorworks Marine, Inc*

## *What training programs are offered?*

The ABYC Laminator and the ABYC Composite Boat Builder Certification (CBBC) training programs were developed specifically to provide worker training to boat builders who are producing composite boats.

## *What is the ABYC Laminator Course?*

In this course, students will be introduced to the theory of composites, materials, open molding procedures, finishing, and personal safety.

It is a class that is specifically designed for the shop floor worker in order to give a rudimentary understanding to the reasons why there are specific guidelines to follow when building a composite boat.

## *What is covered in the ABYC Laminator Course?*

This program provides the basic training that each and every laminator should know.

The course focuses on providing an understanding of composite materials, equipment, proper application and use along with safety training.

*This course requires 8 hours of instruction and a two hour, 100 question multiple choice exam.*

## *What is the ABYC Composite Boat Builder Course?*

The CBBC, or Composite Boat Builder Certification, is the advanced training program.

This NOCTI certified program is specifically designed to provide boat builders with a thorough understanding of marine composite construction.

## *What is covered in the ABYC Composite Boat Builder Course?*

Topics covered include materials in use today, production and advanced manufacturing processes, structural details and hardware installation, quality assurance, and safety and environmental compliance.

*This course requires 12-16 hours of instruction and a three hour, 200 question multiple choice exam.*

## *How can you afford training?*

Almost every state has some sort of worker training program.

These programs exist to help companies train their employees.

Some will offset training costs by as much as 50%.

From the Brevard Job Link Website



The coordination of customized training efforts is one of the many ways Brevard Job Link is helping local businesses tackle a skill inequity in the labor force.

## *Where can you get training?*

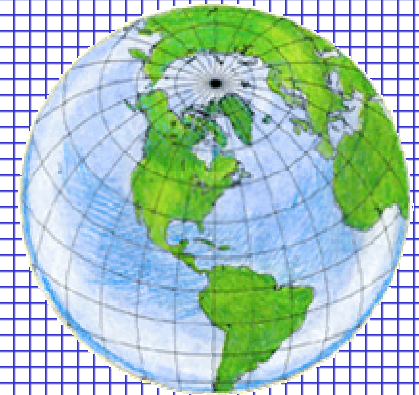
There are a few different ways to obtain training:

We can come right to your plant

We can set up a class with a local community college or vocation school

Or you can even take the course(s) via self study

If you would like to schedule a class, call Bonnie Barsa with ABYC at 410-956-1050. If you have any technical questions call Joshua Henson with Structural Composites at 321-480-7350



[http://www.mesc.usgs.gov/resources/spotlight/shorebird\\_isotopes/isotopes\\_home.asp](http://www.mesc.usgs.gov/resources/spotlight/shorebird_isotopes/isotopes_home.asp)

## *Bottom Line*

As the industry begins to adopt new advanced manufacturing processes laminators will more and more take on the role of technicians. With this transition, worker training will take on an even more important role. The investment in worker training made today will continue to pay off far into the future.



USCG 47-foot Motor  
Lifeboat



Recreational Boat Advertised For Sale: “Used Very Little”

## *Want to take it for a test drive?*

Now that we've talked about why training is needed and what products we have to offer, lets take a look at the sample of the CBBC.

The following is a small example of what the course has to offer.