

Shipfitter Curriculum Development

Tidewater Community College
Portsmouth, VA

Instructor - Tim Medlin

- Shipfitter Apprentice Graduate – 1983-1987.
- 23 years experience at Norfolk Naval Shipyard.
- 7 years experience at Tidewater Community College.

Why Train Apprentices?

- Skilled workers are at an all-time low.
- Skilled workers are past the prime shipfitting age.
- It takes about 7-10 years for an apprentice to become a skilled shipfitter.

Curriculum Requirements

- Expert panel was assembled from several shipyards - BAE Systems, Newport News Shipyard, Norfolk Naval Shipyard and others.
- The panel assembled a list of skills that would be required of a craftsman and applied the information to the Dacum.

Curriculum Development

- Developed from the guidelines of the expert panel and the use of the Dacum of TCC.
- Developed 1 generic course for all trades and 5 courses for shipfitters.
- Should be followed up with academic courses and (OJT) on-the-job training.

MAR-193

Introduction to Ships Systems

- General information related to all of the various trades.
- Ships Compartmentation & Nomenclature for all Trades
- Basic awareness of shipboard safety and work documentation.
- Introduction to Shop Math
- Basic Hand Tools for all Trades

Instructor Observations

- MAR-193 should be given to apprentices early in 1st year.
- Additional “Deliberate Malpractice” training may be needed.
- Basic math and additional tutoring may be needed for new apprentices.

Shipfitter I

- Structural Blueprint Reading
- Material Identification
- Basic Measurement
- Hot Work Control
- Weld Joint Design

Shipfitter II

- Layout & Assembly Practices
- Intro to Shop Math
- Shop Geometry
- Shipfitter Tools
- Firewatch Training

Shipfitter III

- Molded Lines / Working Lines
- Rolling & Shaping Material
- Ships Lines & Structural Terms
- Introduction to Watertight Doors
- Introduction to Pipe Development

Shipfitter IV

- *“HANDS ON” MOCKUP TRAINING*
- Mockup Safety
- Tack Welding – SMAW
- Oxy-Acetylene Torch Training
- Basic Structural Fabrication
- Basic Foundation Scribing

Shipfitter V

- *“HANDS ON” MOCKUP TRAINING*
- Mockup Safety
- Watertight Door Repair
- Advanced Structural Fabrication
- Camber & Shear Scribing

Questions???