

# Maritime / Transportation Industry Sectors & Jobs



## Shipbuilding / Ship Repair



Dimensional Control,  
Nuclear Welder,  
Welding Inspector,  
Non-Dest. Testing,  
Designer, HVAC  
Technician

Welder, Ship  
Fitter, Pipe Fitter,  
Marine Electrician,  
Inside Machinist,  
Outside Machinist,  
Painter, Insulator,  
Rigger, Dock  
Master, Carpenter,  
Blacksmith

## Sea-Going



Masters,  
Chief Engineers,  
Chief Officers,  
2nd Engineers,  
Electro Technical  
Officers (ETO)

[Able Bodied  
Seaman  
Machinist  
Steward](#)  
Messperson  
Deckhand

## Ports / Logistics



Longshoremen,  
Stevedores,  
Crane & Tower  
Operators,  
Forklift  
Operators, Cargo  
& Freight Agents,  
Security, Import /  
Export  
Managers, Risk  
Assessment,  
Engineers,  
Logistician,  
Network  
Technicians

## Recreational / Pleasure Craft



Electrical  
Marine Corrosion  
Marine Systems  
Diesel Engine and Support  
Systems  
Gasoline Engine and Support  
Systems  
Composite Boat Building  
Refrigeration and A/C

SB

SR



## Maritime-Related Terminology

**Aft** - rear of the vessel

**ARI** - Apprentice Related Instruction - Tidewater Community College office governing Apprenticeship Programs

**AWS** - American Welding Society - education and certifications for professional welders

**AST&L** - American Society of Transportation and Logistics - education and certifications for professionals in Transportation and Logistics careers

**Bridge** - high, often-enclosed platform from which vessel is operated

**Bulkhead** - doorway in a vessel that can be sealed water-tight

**Compartment** - unit of division of space in a ship that can be sealed-off from adjacent compartments

**CONEX Box** - Cargo container system used on cargo ships which can be transferred to rail or semi-truck

**DHS** - Department of Homeland Security - largest Federal Government agency - has domain over all areas of domestic national security

**DOC** - Department of Commerce - federal agency regulating commerce

**DOD** - U.S. Department of Defense - all branches of the U.S. Armed Forces fall under this agency

**DOE** - Department of Energy - federal department governing energy or may refer to a state Department of Education

**DOEd** - federal Department of Education

**DOLI** - Department of Labor and Industry - federal agency regulating labor issues including apprenticeship

**DOT** - Department of Transportation - federal agency regulating transportation

**Intermodal** - transportation system that integrates a combination of ship, rail, road and/or air

**Engineer** - person responsible for running and maintaining the engine and ship's propulsion systems

**Drydock** - Large floating platform that allows vessels to be floated within - then water is pumped out to cradle the vessel for service and repair

**Fore** - front of the vessel

**Head** - toilet facilities on a vessel

**LCAC** - Landing Craft Air Cushion - hovercraft program operated by the U.S. Navy

**MITAGS** - Maritime Institute of Technology and Graduate Studies

**MSMO** - Multi-Ship Multi-Option - contracts to repair a class of U.S. Navy ships

**Navigator** - person responsible for navigating the ship at sea

**NAVSEA** - Standards and specifications to which contractors to the U.S. Navy must adhere

**NDT** - Non-Destructive Testing - used in the shipbuilding and ship repair industries to inspect critical welds - nuclear and non-nuclear

**NIMS** - National Institute of Marine Science

**NOAA** - National Oceanographic and Atmospheric Administration - under Department of Commerce agency that monitors weather and ocean systems that affect commerce

**ONR** - Office of Naval Research - research arm of the U.S. Navy

**OSHA** - Occupational Safety and Health Administration - federal agency regulates health and safety of workers

**Pilot / Harbor Pilot** - Person responsible for navigating within inland waterways such as bays, rivers and intercoastal waterways

**Port** - Left of the vessel

**Robo-Boats** - College-level international contest where students build, test and compete with robotic Autonomous Vehicles (AV)s equipped with sensor systems to meet a series of technical challenges

**Rudder** - movable surface that allows the ship to be steered in one direction or another

**SEA PERCH** - Contest where students (grades 8-12) build, test and compete with Underwater Autonomous Vehicles (UAV)s

**Screw** - the propeller of the ship

**SLEP** - Service Life Extension Program - U.S. Navy program to extend the service life of various transportation and weapons systems

**Starboard** - Right of the vessel

**TEU** - Twenty foot Equivalent Units - measurement used in the port and logistics industry

**Thruster** - small side-facing propeller that helps vessels dock

**Tug** - Vessel that aids in the inland waterway navigation and docking of vessels

**TWIC** - Transportation Worker Identification Card - identification credential for workers in transportation and logistics occupations