Mooring Safety – Small Vessels Meeting Kit



WHAT□S AT STAKE

The stakes of mooring safety in small vessels is crucial for the protection of small vessels themselves. Adequate mooring practices prevent damage to the vessel's structure, equipment, and fittings. Securely mooring the vessel helps prevent drifting, collisions with other vessels or objects, or damage caused by adverse weather conditions.

WHAT□S THE DANGER

DANGERS OF MOORING SAFETY PROTOCOL IN SMALL VESSELS

- Inadequate securing of mooring lines, failure to use appropriate personal protective equipment, or lack of awareness about potential hazards can result in slips, falls, or being struck by moving objects.
- If a small vessel is not properly moored, it can be susceptible to capsizing or swamping.
- Inadequate mooring can lead to collisions with other vessels, docks, piers, or other structures.
- If a small vessel is not properly moored, it can drift away from its intended position.
- Poor mooring practices can lead to environmental damage.

COMMON HAZARDS ASSOCIATED WITH MOORING SAFETY IN SMALL VESSELS

- Workers encounter slippery surfaces, or uneven decks, increasing the risk of slips, trips, and falls.
- When mooring lines are under tension and suddenly released or improperly handled, they can snap back with significant force and cause severe injuries or fatalities.
- In the process of securing mooring lines, individuals may be at risk of being crushed or pinched between the vessel and the dock, other vessels, or equipment.
- During mooring operations, there is a risk of individuals accidentally falling overboard. Falling overboard poses a significant drowning hazard,

if safety precautions, such as wearing a life jacket, are not followed.
- Improper mooring techniques or failure to properly secure the vessel can lead to collisions with other vessels, docks, piers, or other structures.
- Inadequate mooring practices can have adverse environmental effects. Improper use of anchors or dragging mooring lines can damage sensitive marine habitats.
- Adverse weather conditions, such as strong winds, heavy waves, or rapid currents, increase hazards.
- Insufficient knowledge of mooring safety procedures and lack adequate training or failure to follow established safety protocols increases the likelihood of incidents during mooring operations.
- Faulty or worn-out mooring equipment, such as ropes, lines, cleats, or winches, can fail under stress, increasing the risk of accidents and injuries.
- During mooring operations, there is a risk of electrical shock or electrocution if proper precautions, such as avoiding contact with live wires or using ground fault circuit interrupters (GFCIs), are not taken.

HOW TO PROTECT YOURSELF

MORING SAFETY PREVENTION WHEN OPERATING OR ONBOARD SMALL VESSELS

- Always wear appropriate PPE, such as a life jacket or personal flotation device (PFD), sturdy footwear with slip-resistant soles, and gloves, to ensure personal safety.
- Understand how to properly use mooring equipment, including ropes, lines, cleats, bollards, and fenders. Ensure they are in good condition and appropriate for the size and type of vessel being moored.
- Understand how to secure mooring lines correctly, distribute loads evenly, and adjust tension as needed to maintain stability.
- Take into account wind conditions, currents, and tides, before initiating mooring operations.
- Establish clear communication between the helmsperson and, crew members, involved in mooring operations.
- Stay aware of your surroundings throughout the mooring process and mindful of potential hazards, such as nearby vessels, floating debris, or submerged objects that may affect safe mooring.
- If you are uncertain or lack experience in mooring small vessels, seek guidance from more experienced individuals or professionals.
- Regularly inspect mooring equipment, such as ropes, lines, and cleats, for wear and tear. Replace or repair any damaged or worn-out components promptly to maintain their effectiveness.
- Stay informed about local regulations, guidelines, and best practices for mooring safety in your area.

ADDITIONAL MOORING SAFETY PREVENTION IN SMALL VESSELS

- Before initiating mooring operations, plan the process carefully. Develop a mooring plan that includes identifying suitable mooring points, assessing potential risks, and determining the proper equipment.
- Select mooring equipment that is appropriate for the size and type of the vessel. This includes choosing ropes and lines with sufficient strength and length to handle the vessel’s weight and potential loads.
- Follow proper procedures to secure mooring lines to the vessel and the

mooring points. Ensure that lines are properly tied and cleated off, distributing loads evenly across multiple points if necessary.
- Designate trained personnel to handle mooring operations. These individuals should have a good understanding of mooring techniques, safety procedures, equipment usage and response protocols.
- Monitor conditions, including wind speed, currents, and tidal changes, during mooring operations.
- Provide adequate training and education to crew members and passengers on mooring safety procedures.
- Develop and communicate emergency response plans for mooring-related incidents, such as a person falling overboard or unexpected severe weather. Conduct drills and exercises to familiarize crew members with emergency procedures.

FINAL WORD

By implementing preventive measures, such as proper planning, training, equipment maintenance, and awareness of potential hazards, the risks associated with mooring safety in small vessels can be significantly reduced.