

Welcome to the Hard Hat Training Series!



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Welcome to the Hard Hat Training Series. Today, you will learn about fire safety as it pertains to the maritime industry. We will strive to provide information that will increase your knowledge and make you a better and safer worker.



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BASIC FIREFIGHTING
MARITIME TRAINING



In 1987, the *Doña Paz* set sail for Manila, overflowing with passengers by almost triple its legal carrying amount. At around 8:00 p.m., the *Doña Paz* collided with the *Vector*, an oil tanker which was unfortunately carrying over 8,800 barrels of petroleum products.



The oil and gasoline barrels on the *Vector* exploded, and the fire quickly spread to the *Doña Paz* and the surrounding sea. Passengers on the *Doña Paz* woke to find the entire ship and the water surrounding it ablaze.



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The *Doña Paz* crew didn't lower any lifeboats or give direction to the passengers. Instead, they ran panicked through the ship as they tried to escape the fire. They were completely unprepared for the emergency.



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The life preservers had been locked up, so thousands of people jumped into shark-infested waters and swam in the blazing sea among charred bodies as they grabbed at anything that could float. Eventually, a passing ship pulled 26 survivors from the water, meaning only 2 of the 13 people on board the *Vector* and 24 of the 4,400 people on the *Doña Paz* survived.



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There were many factors that made this the world's worst peacetime maritime disaster. First, neither of the ships had working radios, so they couldn't communicate. Also, the thousands of people on the *Doña Paz* made it difficult to steer the ship and meant overcrowding blocked exits paths.





Finally, the crew of the *Doña Paz* was not on full alert, and some survivors claimed that they saw the captain drinking and celebrating before the explosion. Many investigators argue that if the crew had been paying attention, they could have avoided the collision altogether.



Ultimately, the *Doña Paz* crew was underqualified and untrained for the emergency. They did not sound any alarms, follow the proper procedures, or have access to life saving equipment. If they had been competent and prepared, many lives could have been spared.





Although the tragedy of the *Doña Paz* may seem like an extreme case, fires at sea are very common and very dangerous. They can be detrimental, destroying ships and even costing lives.



Fires and explosions are the third greatest cause of ship and cargo loss. Over the past few years, about 118 ships, as well as billions of dollars worth of cargo, have been lost because of fires and explosions.



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Only 15% of fires in the workplace are caused by failed equipment, which means that 85% are caused by employees. It's necessary for you to know the proper way to prevent fires in your workplace, as well as how to react if one occurs.



SAMPLE

Even trained professionals make mistakes. No matter how many years you've been working, it is important that you are aware of hazards in your workplace so that you can prevent accidents from happening.



Did You Know?

The average human makes seven mistakes per hour.



OSHA

STANDARDS

1915 Subpart P – Fire Protection in Shipyard Employment

1910.39 – Fire prevention plans

1910.38 – Emergency action plans

1910.36 – Design and construction requirements for exit routes

1910.157 – Portable fire extinguishers

1910.106 – Flammable liquids

NFPA 10 – Standards for portable extinguishers

ANSI **ASME**

Above are some standards that pertain to general fire safety, maritime fire protection, and fire extinguisher safety. However, additional standards may apply, depending on the country your ship is operating under and individual company rules and regulations. It is your responsibility to know and follow all applicable laws, standards, and regulations.

In this training, we will discuss how to properly store flammable objects and how to recognize and follow certain signs in the workplace. Eventually, you'll be able to recognize common hazards and be better prepared for emergency situations.



We will discuss fixed installations that your ship has in place to fight or prevent fires. We will also discuss the importance of familiarizing yourself with the fire equipment available in your workplace and how to use it.



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We will also go over steps you can take to prevent fires. Many of these steps will involve seemingly unimportant things, like maintaining a clean workplace, remaining aware, and noticing the signs of danger in your area.



Did You Know?

Thoughtless smokers are a big cause of fires in the workplace. If you smoke, be extra cautious.



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Finally, we will talk about how to respond to fires, should the need arise. We will review the necessary steps you should take to stay safe and calm in an emergency.



No matter how many times you have carried out a certain task, there is never a point where it is safe to assume accidents can't happen. Even if it seems inconvenient or bothersome to take extra precaution, you will never regret knowing how to respond to emergencies and ensure your own safety.



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Hazard Identification & Storage

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