

An aerial view of a large aircraft carrier sailing on the open ocean. The deck is filled with numerous fighter jets, and the ship's superstructure is visible in the background. The sky is blue with some clouds.

# Standardized OSHA Maritime Frontline Management Safety Training

# The Importance of Line Manager Safety Training

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## Overview

- Responsible for helping their crew understand how to work safely
- Set the example for what is acceptable behavior
- Knowing safety allows a deeper understanding of the day-to-day challenges they face
- The knowledge gained provides a greater confidence in putting their craftspeople to work
- Increases the trust between the craftspeople and others in the field

As leaders in an organization it is up to them to ensure the welfare of employees

# Survey of Line Manager Safety Training (Over 100 Respondents)

## Most Effective Training Tools



Classroom Training



Procedural Content



On the Job Training



# 42%

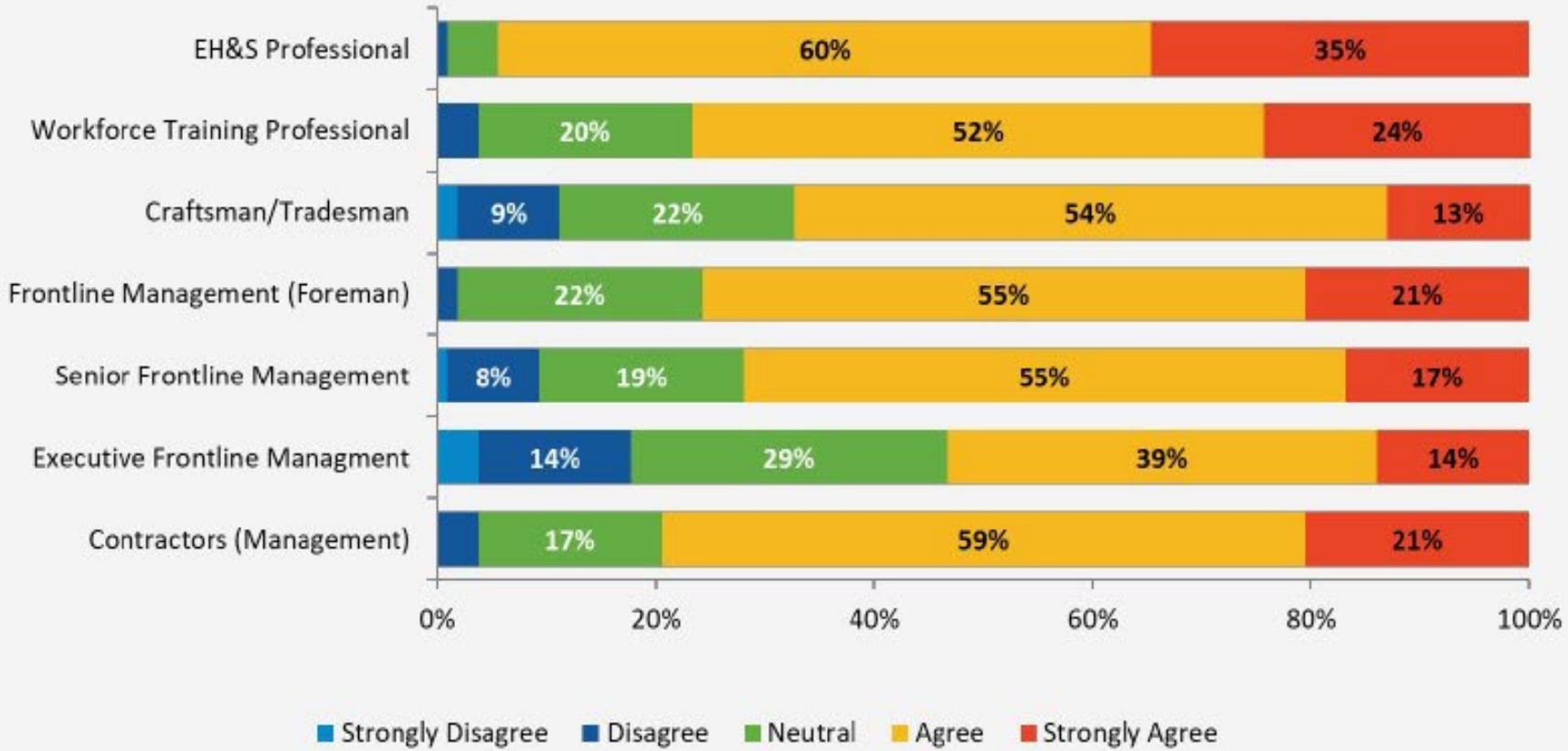
of companies lack effective Safety Communication and Leadership Skills



Frontline Management and Craftsmen are the least likely to be adequately trained on their roles in promoting a safe work environment.

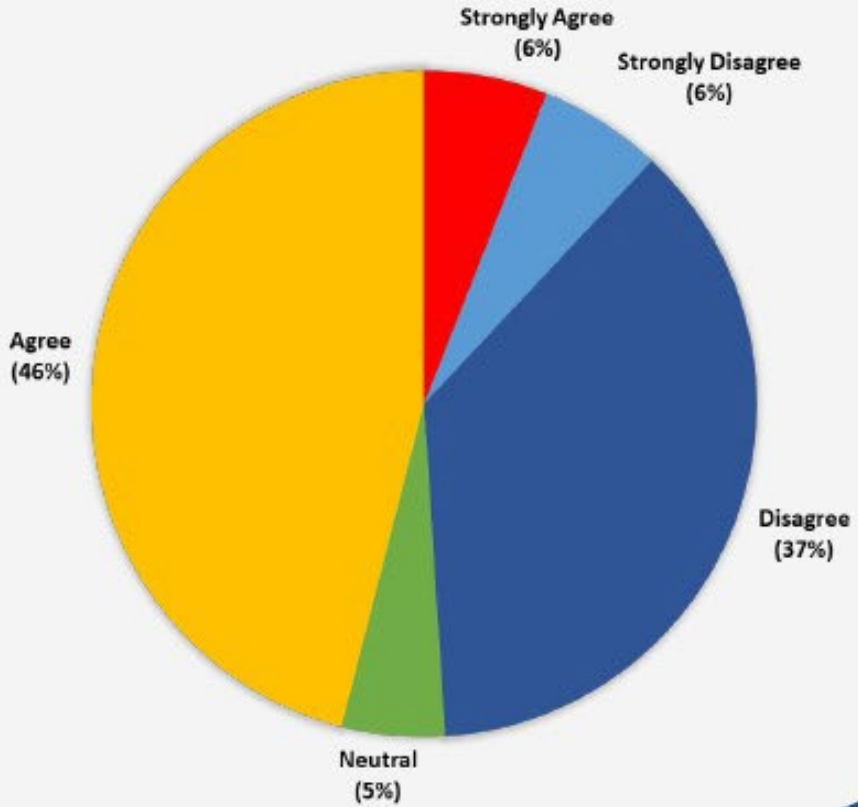
# Survey of Line Manager Safety Training (Over 100 Respondents)

This role demonstrating competency in the OSHA maritime safety standard would bring value to my organization.

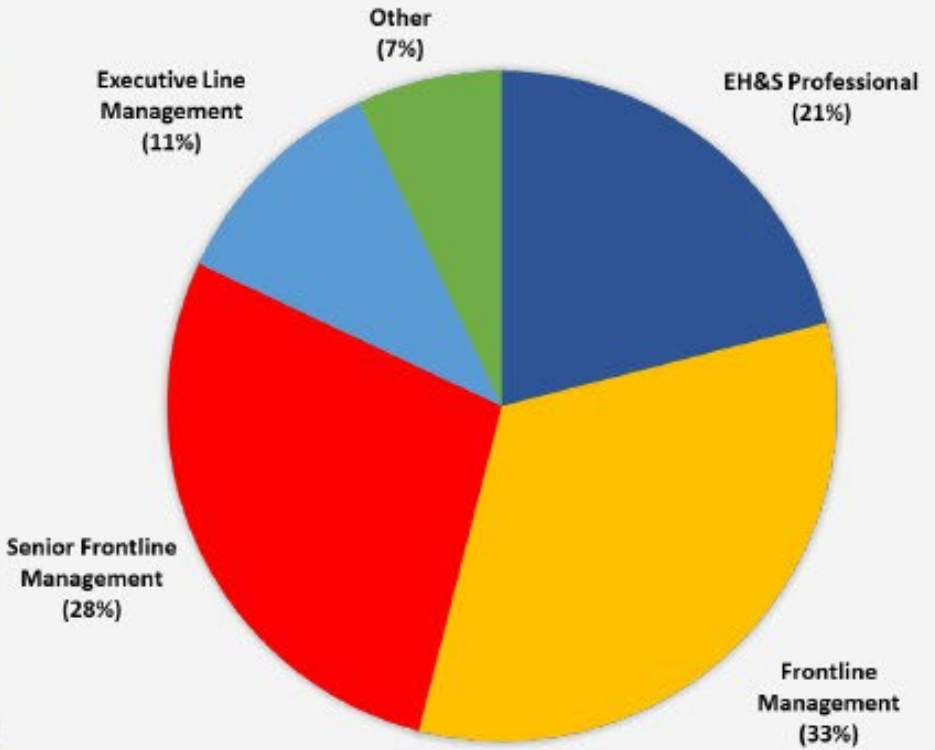


# Survey of Line Manager Safety Training (Over 100 Respondents)

## Workers understand their safety roles and responsibilities.



## Survey Participant Identification



# Primary Survey Analysis

## Our Industry is Lacking Utilization of Knowledge

- Lack of utilization is likely due to most companies lacking training on communication
- Communication and an appropriate leadership style play a major role in adequate preparation for work
- A shift from lecturing & PowerPoints to hands-on/practical application is needed to demonstrate competency of knowledge

## Weakness in Formal Position Orientation Roles & Responsibilities

- 62% of respondents believed that safety roles and responsibilities were communicated adequately during a formal orientation process
- Responses focused on not know or understanding how to interact with craftspeople and others when discussing safety due to a perceived negative culture
- Employees understand their company's focus, whether that be cost, schedule, safety, or quality



# Curriculum Topics

(Peer Reviewed by Various Shipyards and Certifying Bodies)

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- Hazard Recognition and Mitigation
- Hazard Communication
- Environmental Management
- Housekeeping and Line Management
- Ergonomics
- Hazardous Energy Sources
- Elevated Heights
- Fire Prevention & Hot Work
- Machine Guarding
- Noise and Hearing Conservation
- Confined Spaces
- Ventilation
- Leadership Style & General Communication
- Communicating Safety

# Final Deliverables

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- An industry survey detailing current safety training practices
- A report detailing industry safety gaps, best practices, and industry interest in a standardized safety training
- A peer reviewed curriculum in line with the expectations from the United States premier certifying body for safety credentials
- A training focused on human factors and how we interact with hazards
- Starting point business case for use in soliciting company management funding or third-party hosts
- NNS is currently in talks with a third-party organization to have them host the training



# ROI for Implementation

## Common Injury Costs Beyond First Aid (Direct & Indirect)

Sprain - \$64,022 | Laceration - \$45,931 | Puncture - \$58,388  
Example

- Company Size - 1,000
- Industry Average Total Recordable Injury Rate (TRIR) - 5.6
- Industry Average Days Away from work, days of restricted work activity, and/or days of job Transfer (DART) - 3.8
- Assuming employees work 40 hours per week, you would incur approximately 58 injuries annually with 40 being DART
- Total Direct & Indirect Cost for the "Cheapest" Common Injury - \$2,663,998 annually
- Companies implementing this style of training on average, reduce TRIR/DART rates by 67% over the next four fiscal years
- Using the aforementioned figures, this would lead to an annual savings of \$1,784,879.

\* Based on reports provided to the National Council on Compensation Insurance Inc. during policy years 2015-2017



# ROI for Implementation

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- Our goal as shipbuilders is to deliver quality ships to our customer in a timely manner, mitigating injuries mitigates schedule and quality risks.