

Regulations Affecting Training And Manning In Future

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Talking Points

➤ Background

- Goals
- STCW Structure
- Industry Changes

➤ Training

- Current Model
- Tomorrow's Model
- Transitioning to tomorrow's Model

➤ Manning

- Current Model
- Tomorrow's Model



Background - Goals

➤ Training

- Personnel are qualified to carry out their duties and responsibilities **to ensure the safe and secure operation, and environmentally responsible ships**

➤ Manning

- Ships are properly manned **to ensure the safe and secure operation, and environmentally responsible ships**



Background – STCW Structure

➤ Applicability

- Title – Standards of Training Certification and Watchkeeping for **Seafarers**
- Seagoing **ship** - A **ship** navigating in areas not close to inland or sheltered waters or where port regulations apply

➤ Competency in accordance with seafarer duties and responsibilities

➤ Chapter V - Alternative Certification



Background - Industry Changes

➤ Current Trends

- Human resources
 - Complex Onboard operations
 - Increase Shoreside support
 - Increase technology
- Environmental impact with greater restrictions



Industry Changes

➤ Current Trends

■ Need for Specialization

- Operation in remote locations
- Operation of specialty equipment
- Various industry sectors

➤ Greater technological capability



Training – Current Model

- Formal Education
- On-the-job Training
- Familiarization Training
- Challenges with this model
 - Keeping up with technology
 - Heavy reliance on classroom training



Training – Tomorrow's Model

➤ General training

- Basic principles

➤ Specialized training

- Industry segment specific
- Technology specific

➤ Transition between industries



Training – Transitioning to tomorrow

Need to address:

- Adapt to mariner **mobile** population
- Changes to learning technologies and instructional techniques
- Potentially require - changes to international regulations and its implementation
 - All stakeholders must participate



Training – Conclusion

- Today's mariners are generalists, tomorrow's mariners need to be specialists
- Today's training processes and delivery systems need to change to meet tomorrow's needs
- International focus on training – all stakeholders must participate



Manning – Current Model

- Manned vessels
 - Traditional operations

- Reduced manning
 - Automation
 - Engine - Limited Automation
 - Deck - Solo-watchkeeping
 - Short-sea shipping
 - Domestic operations



Manning – Future Model

➤ Manned vessels

- Traditional operations

➤ Reduced manning

- Automation
 - Engine - Limited Automation
 - Deck - Solo-watchkeeping
- Short-sea shipping
- Domestic operations



Goals - Future

➤ Training

- Personnel are qualified to carry out their duties and responsibilities **to ensure the safe and secure operation, and environmentally responsible ships**

➤ Manning

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