



Merchant Marine Future

Preparing Workforce for Greater Automation & Sensored Conditions

Maritime Education & Training

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Why Maritime Education & Training?

- Tikkun Olam
 - *Leave the world a better place than what it was when one came in*
- Sustainable shipping is a *sine qua non* for sustainable future
- *Appropriately educated and trained mariners* is an essential pre-requisite for sustainable shipping

Where we were ---

I must down to the seas again,
To the lonely sea and the sky;
And all I ask is a tall ship,
And a star to steer her by.

Source: *Sea-Fever* by John Masefield

The Mariner Lineage

The uniqueness of mariners

- There are three sorts of people; those who are alive, those who are dead, and those who are at sea.

Anacharsis, 6th Century BC

- What's so special about us?
 - Behave in a sea(wo)man-like manner
 - Mental and physical ability to face the unknown
 - Ability to read the elements of nature
 - Good leader with sound judgment
 - Global citizens

The Case of M.V. Priscilla (2018)



Image courtesy MAIB

Where to, Priscilla?

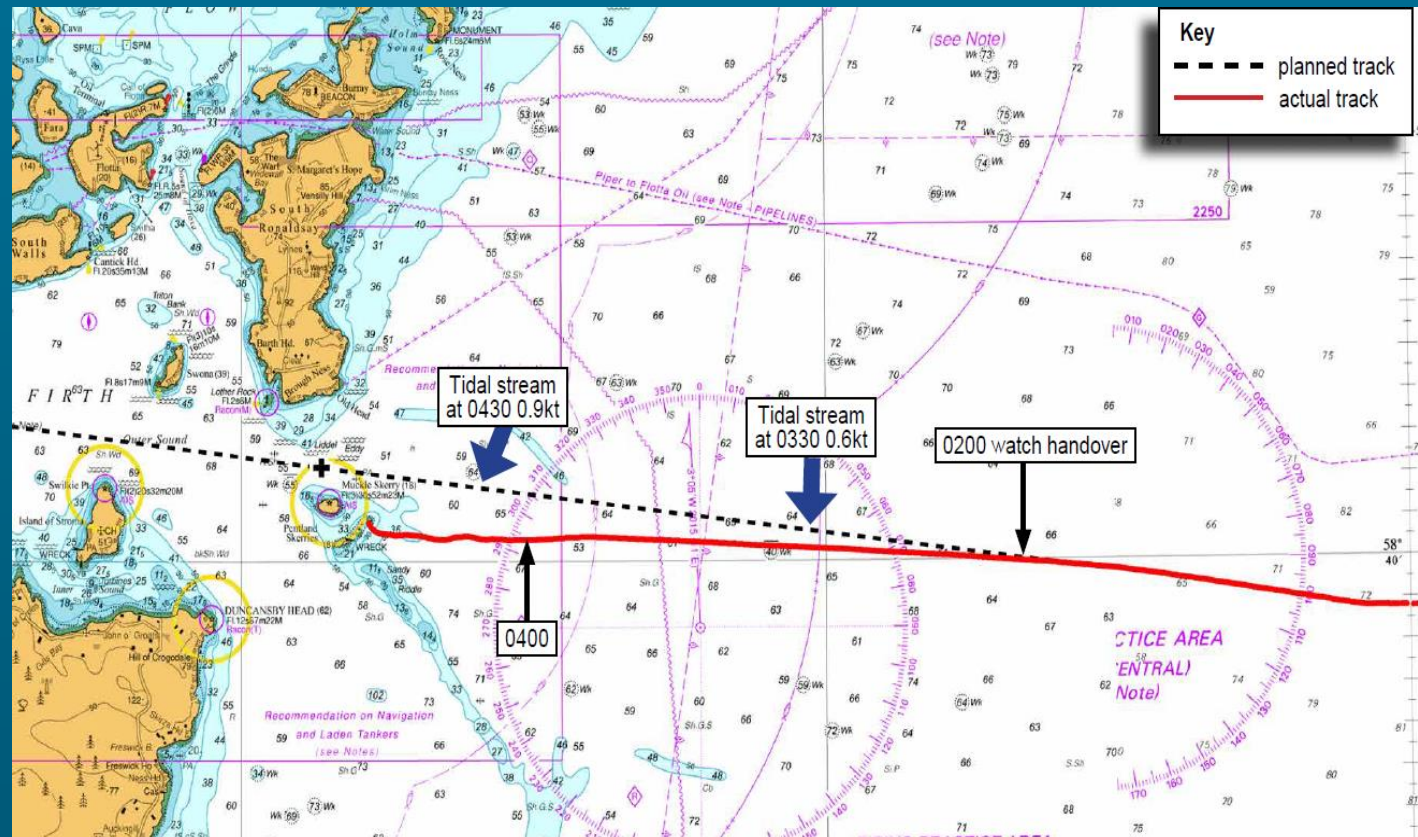


Image courtesy MAIB

Outcomes Assessment



Image courtesy MAIB

Contemporary Mariner Skills

21st Century Mariner Skill-sets

- Traditional mariner skills including situational awareness
- Tremendous self-discipline
- Competent, and self-confident
- Quick decision maker, and leader
- Strong ethics and integrity
- Respectable cross-cultural literacy, and diplomatic skills
- Superior organizational skills
- Tech savvy *Jack/Jane of all trades*
- Work effectively in a fast-paced job environment

Setting the course

--- laden with plethora of transformational changes

- Disruption
- Digitalization
- Artificial intelligence
- Increased automation
- Cyber vulnerabilities
- Regulatory enhancements
- Increasing complexity in shipping operations
- Increasing consequences of system failure/s
- Demands for enhanced Maritime Education and Training
 - Overhaul vs. Focused review of the STCW curriculum
 - ICS, Other stakeholders including USCG and MARAD

A life-time of experiences do not come
in four-year packages

I must down to the seas again,
To the lonely sea and sky,

All I ask is a ship I am trained to handle
And the mindfulness to execute my duty.

-With apologies to John Masefield

Thank you

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