Marine Learning Systems

Online Training And Assessment
To Help Secure Safe Operations

Ferry Shipping Summit 2018

Peter Frankel
VP Sales & Marketing, Marine Learning Systems

All About eLearning
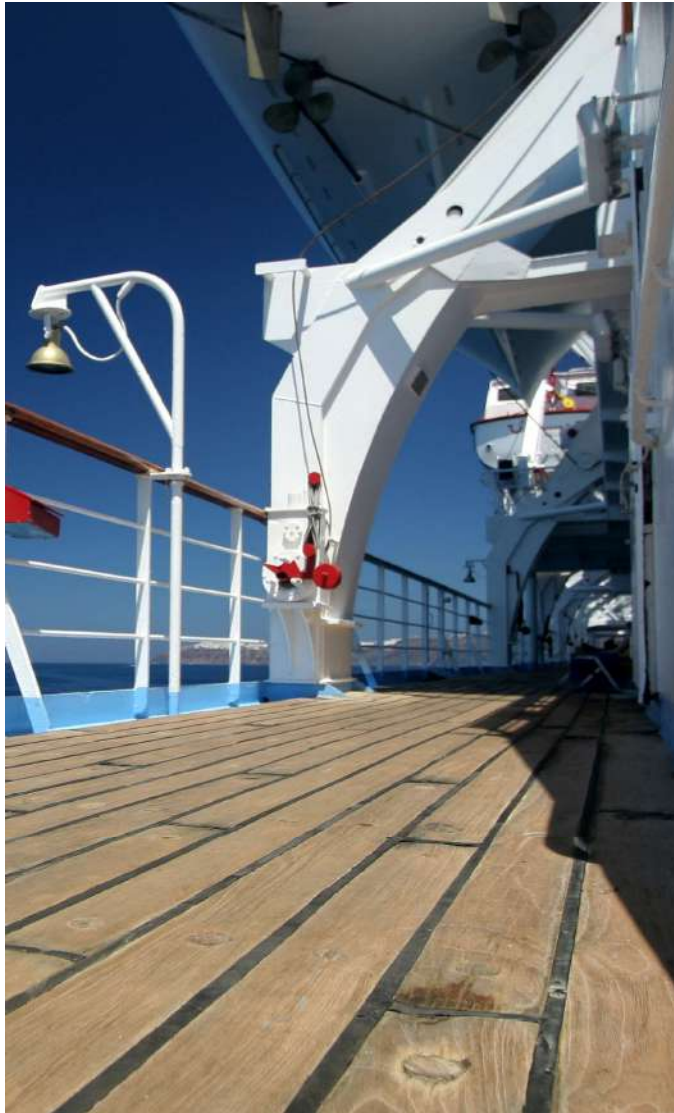
- **Content Vs Platform** | Courses, Assessments, Technology (LMS)

- **Very Effective For Knowledge Acquisition** | Tune the experience to the learner

- **Skills Development** | Build underlying foundation, support decision-making

- **Blended Is Best** | Uses appropriate mechanisms for what is being taught

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Maritime Training and Assessment Challenges

- **Reliance on F2F/Mentorship** | Training and assessment varies by trainer.

- **Lack of Consistency** | Traditional training models that lack standardization

- **Absence of Metrics** | Impossible to measure and improve training effectiveness

- **Complex Operations** | Regulatory environment with increasingly sophisticated equipment and processes

- **Training is Separate** | Courses are outside of standard workflows

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Training and Assessment – Core Principles

Ensure Consistency and Objectivity

Individual trainers and assessors introduce variability into the process. Structured approaches **improve standardization in training and give reliable metrics**.

Unlock Insights

Traditional methods focus on completion - valuable data is lost. The right tools are needed to **reveal insights into strengths and weaknesses for continuous improvement**.

Assess Everything and Everywhere

Training and assessment need to occur while activities are underway (courses, drills, exercises), even when these activities happen in remote locations.

If you can't measure it, then you can't manage it.

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Marine Learning Systems Approach

Safety and performance optimization requires a structured, practical, and insights-based approach to training and assessment.

Blended Learning

Combine eLearning with face-to-face instruction
Allow trainers to be used as effectively as possible

Test Knowledge Online

Randomized self-tests and formal exams
Prove that materials are truly understood

Expert Evaluation

Standardized, electronic checklists
Ensure efficient, consistent and rigorous assessments

Skills Assessor

Electronic clipboard captures robust data in-task
Assess hard-skill performance objectively and consistently

Career Navigator

Competency and career progression system
Encourage development and ensure succession

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Learning Management System

Learning Management System

Self Tests / Exams

Electrical Assessment

Instructions
Please select the best choice from those presented.

Questions:

Which of the following would be considered a secondary injury that can result in serious injury or death?   6535

- A) Loss of sensation in affected limb
- ◉ B) Ventricular fibrillation
- C) Burns
- D) Falls

Currents greater than_____mA may cause death   6528

- A) 50
- B) 75
- C) 100
- D) 125

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Training Records

Grades By Student Report

Users

First, Last Name, Login or Email | Filter ⓘ | ⚙ Download Certificates

Student ▲	# Completed Courses ⇕	# In Progress Courses ⇕	Avg ⇕	Last Graded Activity ⇕	Certificates		
Test Atlantic (TAtlantic)	0	1	100%	Oct 31 2016, 8:03:11	0	View	Select
Test Certs (TCerts)	1	0	60%	Oct 31 2016, 11:18:22	1	View	Select
Test Random (TRandom)	0	1	20%	Oct 28 2016, 15:10:07	0	View	Select
Test Student (TStudent7)	0	1	80%	Oct 28 2016, 15:04:07	0	View	Select
Test User (TUser10)	0	1	20%	Oct 26 2016, 16:48:34	0	View	Select
Test User1 (TUser14)	0	1	60%	Oct 26 2016, 17:00:51	0	View	Select
Testing Student (TStudent9)	0	1	40%	Oct 26 2016, 16:49:23	0	View	Select

← First ‹ › Last →   **1 - 7** of 7

⬇ Export to CSV

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Awarding/Managing Certificates

Insights into Crew Assessments

The candidate answered correctly. | Not overridden ▾ | 23516

Which of the following are NOT ways exposure to bloodborne pathogens commonly occurs?

A. Needlesticks.
B. Cuts from other contaminated sharps such as scalpels or broken glass.
C. Contact of the eye, nose, mouth or cut/abraded skin with contaminated blood.
D. Sneezing by others. ✔

Previous Responses 2 | *Test Certs* selected **D** on Oct 31 2016, 11:17:56

Oct 31 2016, 11:17:56 (1) *Test Certs* selected **D**

Oct 31 2016, 11:17:52 (2) *Test Certs* selected **A**

The candidate answered INCORRECTLY. The correct choice was C. | Not overridden ▾ | 23513

Which of the following occupations is at high risk of exposure to bloodborne pathogens?

A. Air Traffic Controller.
B. Bank employee.
C. Medical care first-responders.
D. Deep sea diver. ✖

Test Certs selected **D** on Oct 31 2016, 11:18:14

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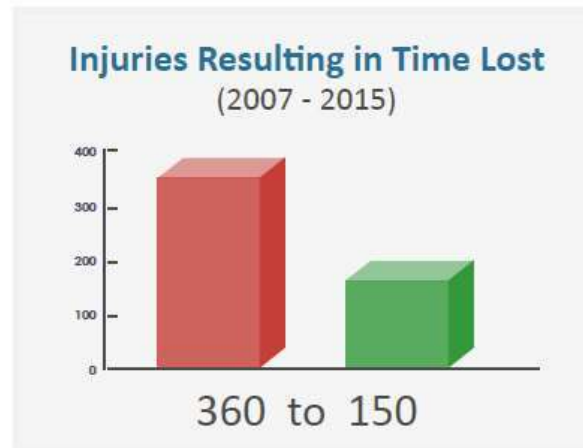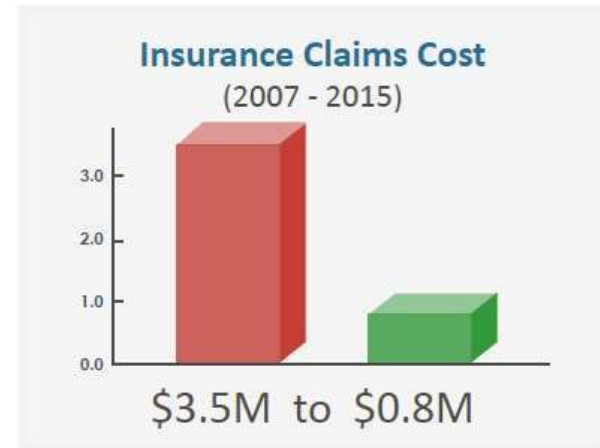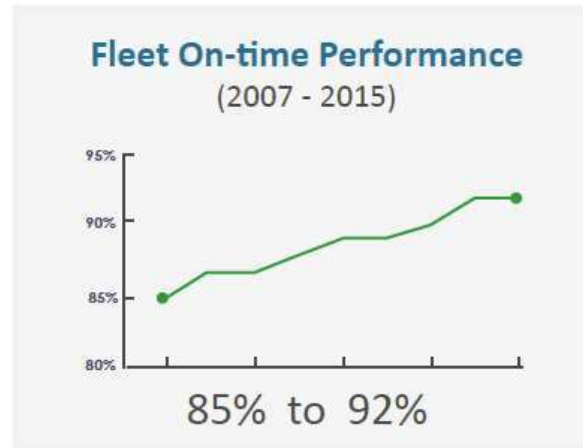# Insights into How to Improve Materials

Recording & Assessing Drills
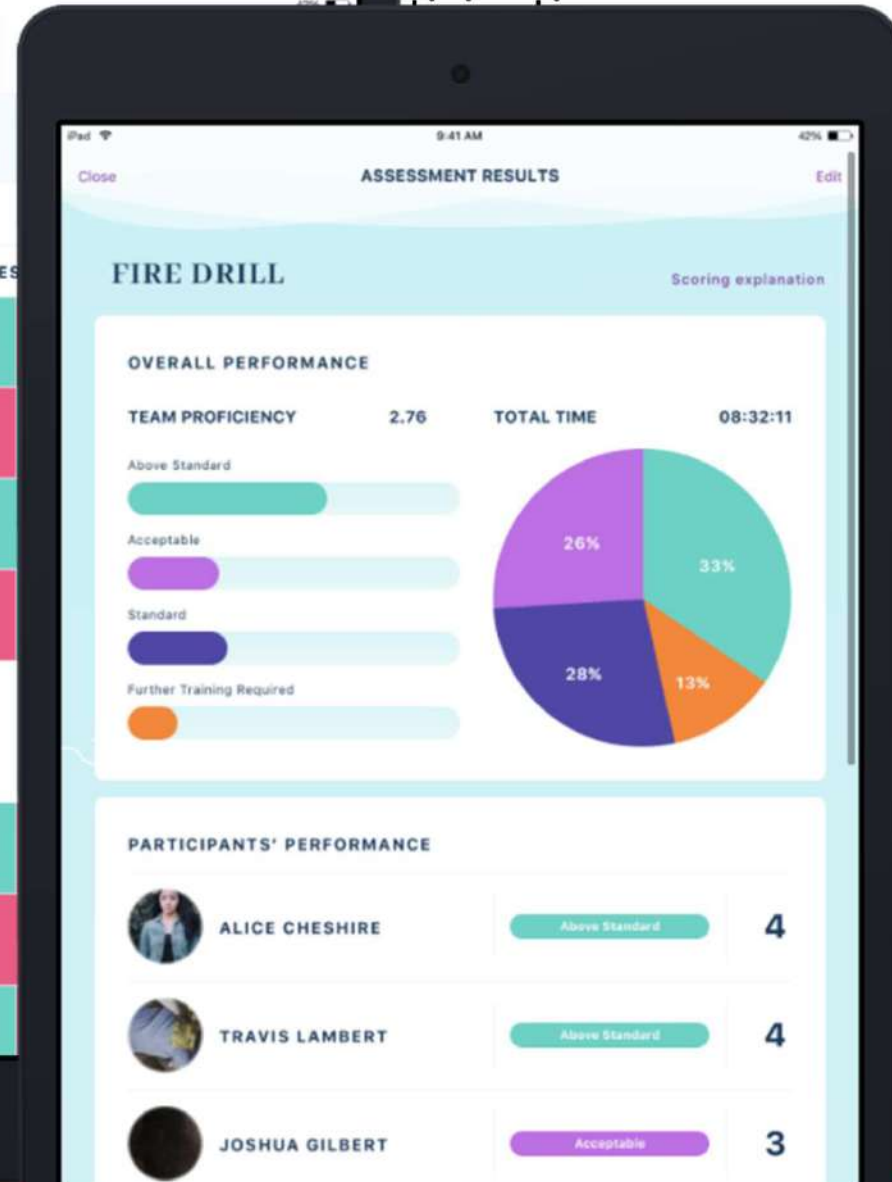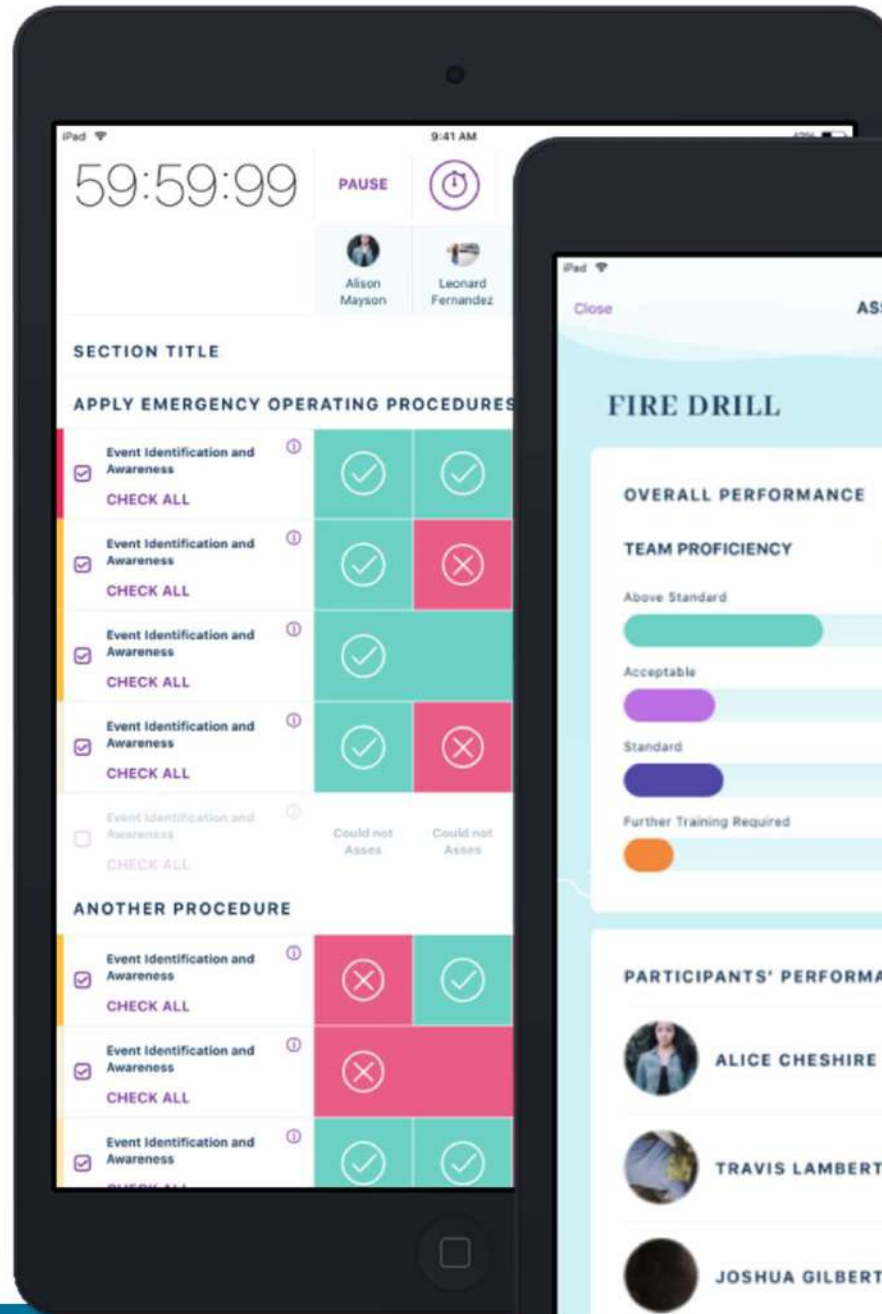
BC Ferries Safety Program Results

- **Transformation of training** – deployed blended learning to make job shadowing standardized and efficient.

- **Structured Training and Assessment** became a critical part of their **just culture**

- Identify training problems **before** performance or safety is affected

Fleet On-time Performance (2007 - 2015)
85% to 92%

Insurance Claims Cost (2007 - 2015)
$3.5M to $0.8M

Injuries Resulting in Time Lost (2007 - 2015)
360 to 150

Days Lost Due to Injuries (2007 - 2015)
12,000 to 4,000

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Thank You!

Peter@MarineLS.com

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