ALPHA BULKERS
SHIPMANAGEMENT INC.

Applications of AI in Crew Familiarization

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The problem of CMS familiarization

The problem of Company / Safety Management System Familiarization



Applications of AI in Crew Familiarization

- **Too many manuals**
  - –Company procedures
  - –Company policies
  - –Engine Room Manual
  - –HSQE Manual
  - –ECDIS Manual
  - –Navigational procedures
  - –Risk Assessment Manual
  - –SOPEP Manual
  - –Shore emergency response plan
  - –Tanker Safety manual
- **Different requirements for different people**
  - –Crew members
    - •Ranks
    - •Assigned duties
  - –Office personnel
    - •Departments
    - •Ranks



The Solution

COMPany **AS**sessment **S**ystem

“COMPASS”

What is COMPASS?

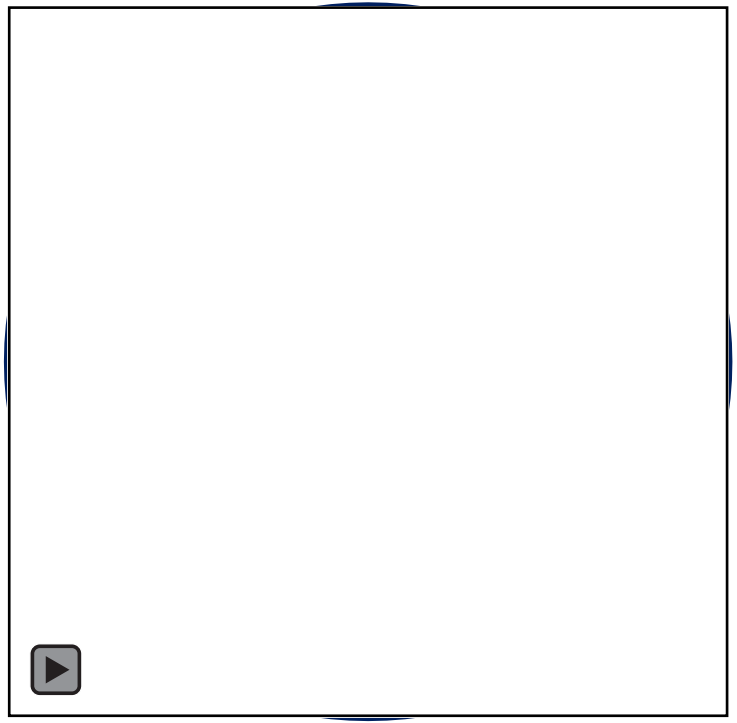
- **A collection of Assessments**
  - –Per manual
  - –Per rank
  - –Random selection of questions
- **Scope**
  - –Primarily to familiarize
  - –A tool to self assess and train
  - –Final assessment

What's the catch?

How do we create the assessments?

We need a lot of questions…

Say Hello to AI…



The Process

- **Step 1:** Assign manual chapters to Ranks / Assigned Duties



MANAGEMENT SYSTEM — MANUAL

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All crew members
All deck and engine officers
All crew members
All crew members
All deck and engine officers
All crew members
Master, CO
All crew members

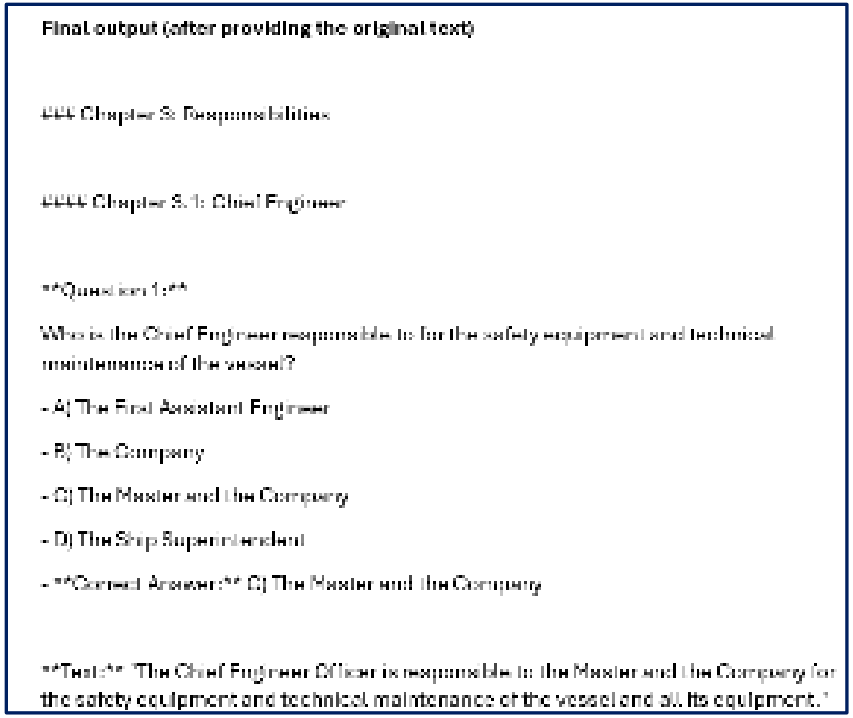
The Process

- **Step 1:** Assign manual chapters to Ranks / Duties
- **Step 2:** Generate the questions Chat GPT Prompt:

"Make a big number of multiple-choice questions for each chapter separately highlighting the chapter number and title and the correct answer for the following text. Provide also the text from which the correct answer was created"

The Process

- **Step 1:** Assign manual chapters to Ranks / Assigned Duties
- **Step 2:** Generate the questions
- **Step 3:** Insert question in a quiz maker system
  - Create assessments per rank /assigned duties



Final output (after providing the original text)

Chapter 5: Responsibilities

Chapter 5.1: Chief Engineer

Question 1:

Who is the Chief Engineer responsible to for the safety equipment and technical maintenance of the vessel?

- A) The First Assistant Engineer
- B) The Company
- C) The Master and the Company
- D) The Ship Superintendent
- **Correct Answer:** C) The Master and the Company

Text: "The Chief Engineer Officer is responsible to the Master and the Company for the safety equipment and technical maintenance of the vessel and all its equipment."

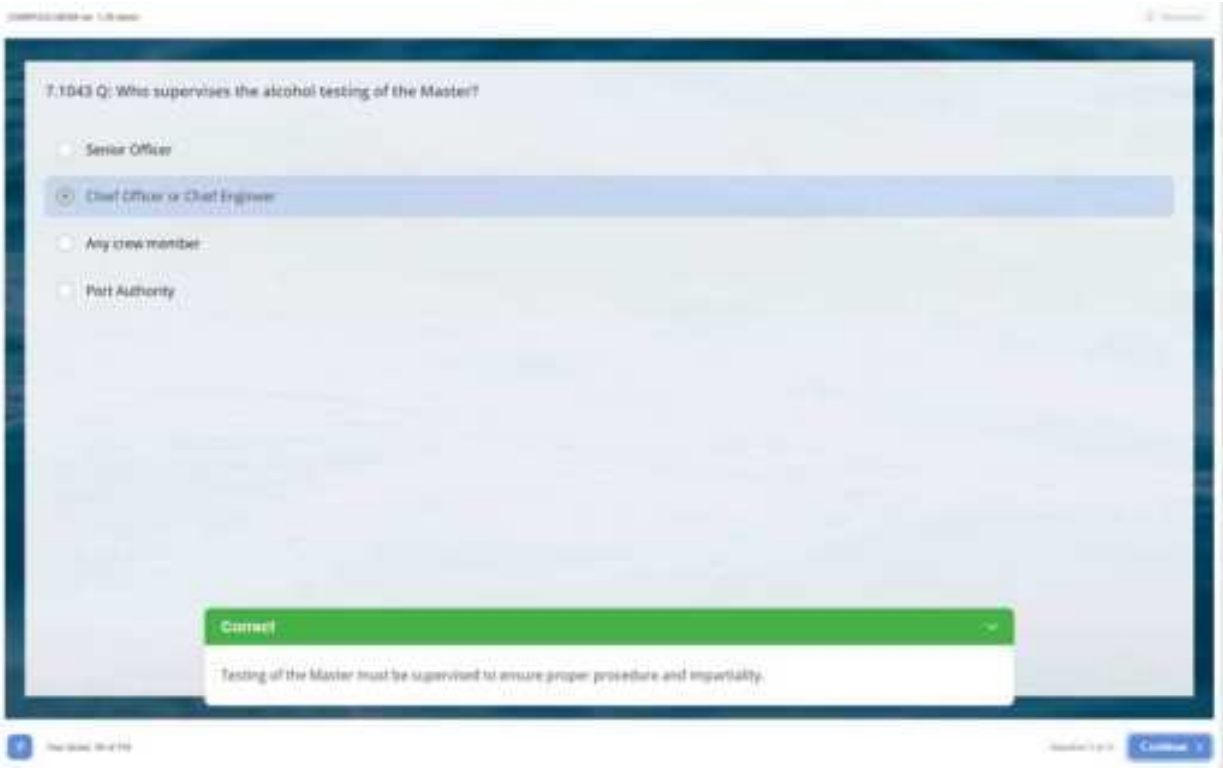
Example – Opening Screen



Example – Choosing the Appropriate Assessment



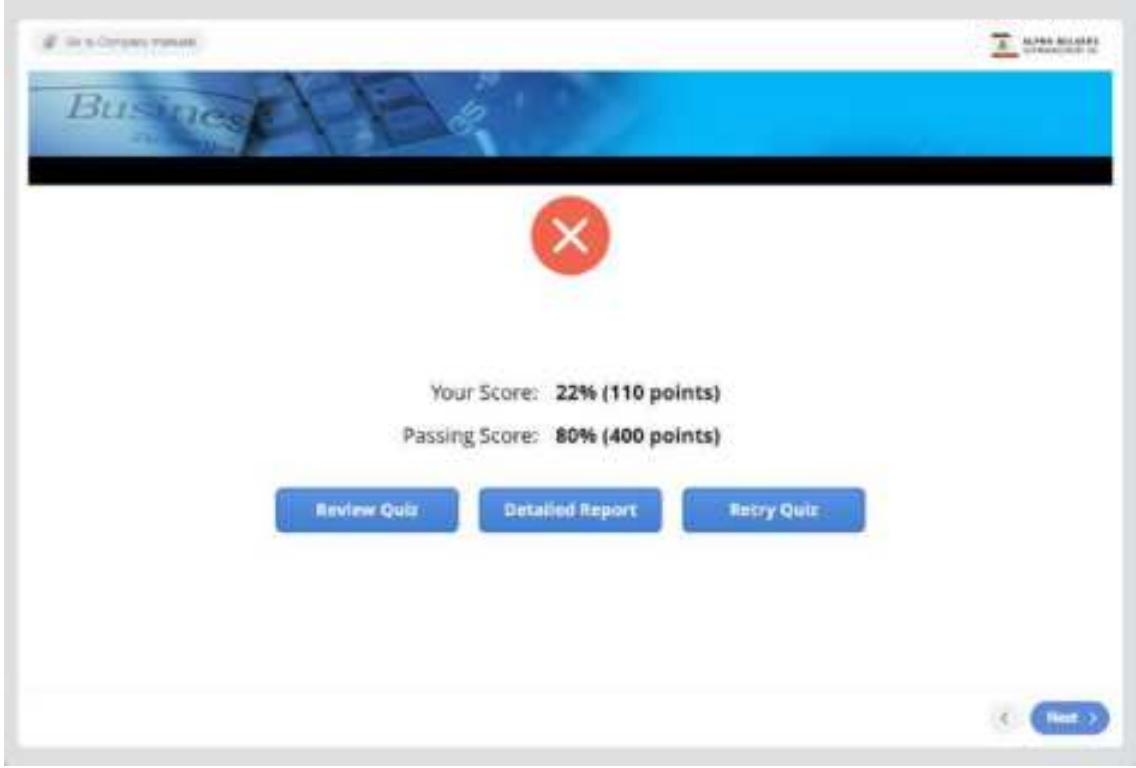
Example – Q1 (Correct answer)



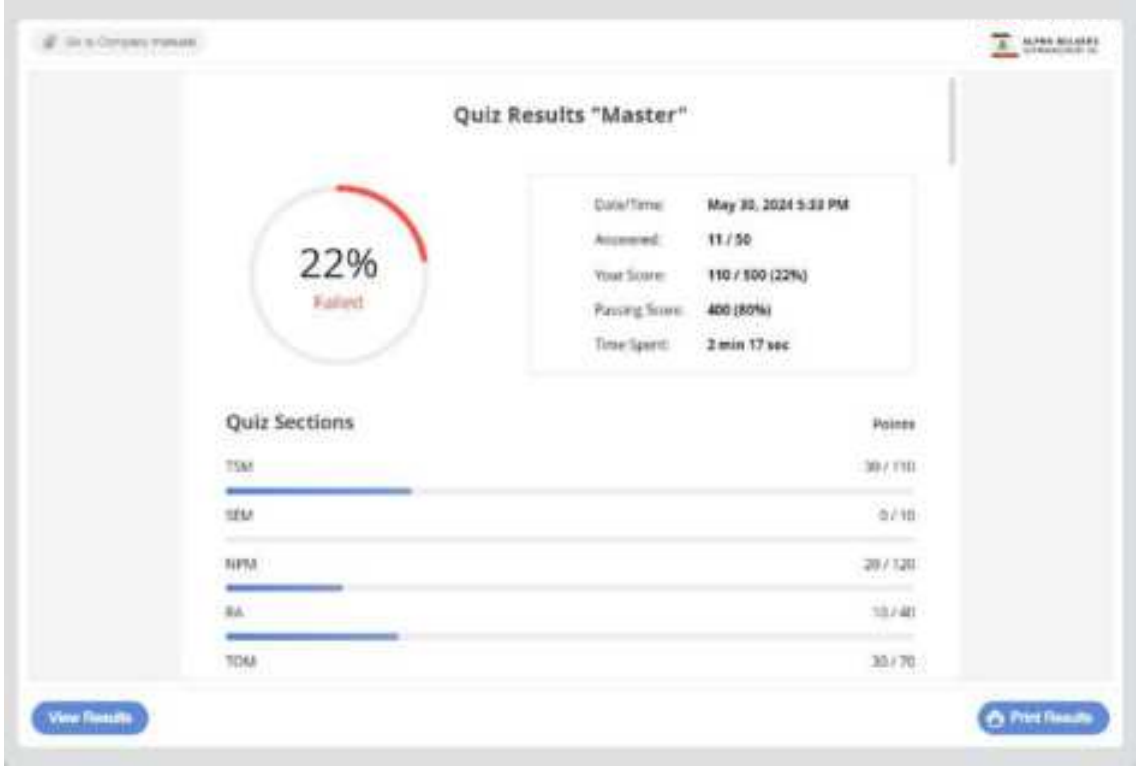
Example – Q2 (Wrong answer and feedback)



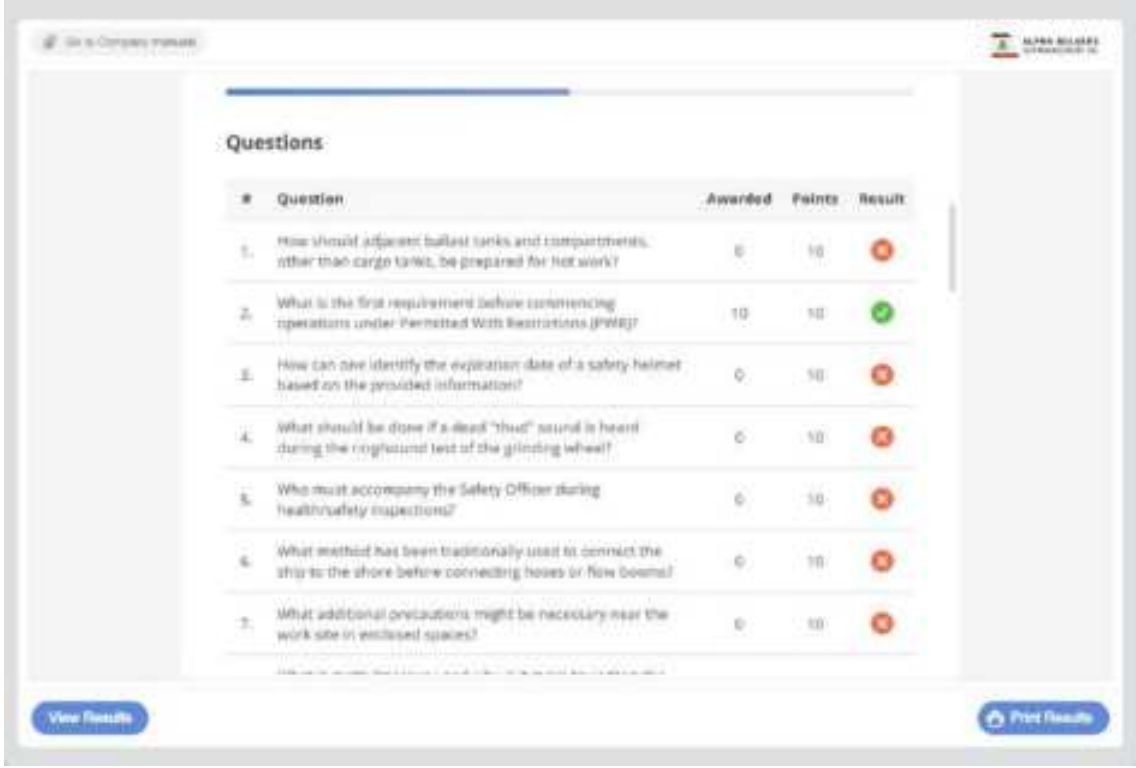
Example – Final Score



Example – Results' Overview



Example – Detailed Report



The Process

- **Step 1:** Assign manual chapters to Ranks / Assigned Duties
- **Step 2:** Generate the questions
- **Step 3:** Insert question in a quiz maker system
  - Create assessments per rank / assigned duty
- **Step 4:** Accommodate the system
  - In a LMS?
  - Separately e-mailing the office?

So…

CMS Familiarization Resolved?

Thank you.