



Virtual Reality Training

Immerse your crew in the
training of tomorrow



Game Changer

Virtual Reality (VR) is the exciting new technology for engaging seafarers with the training they need as they enter and advance through their careers.

Videotel is delighted to be working exclusively with OMS-VR to produce and distribute the most comprehensive and innovative maritime virtual reality training for seafarers.

Powerful Toolset

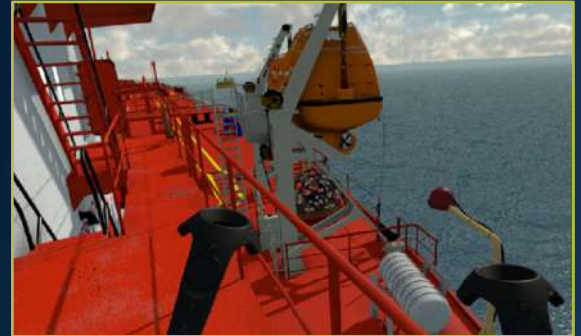
A powerful new
toolset to improve
crew engagement
and retention

Safe Sandbox

A safe sandbox to
learn experientially
without logistical
costs

Critical Content

STCW-related
content, cargo and
engineering tasks,
and best practice
exercises



What It's All About

What is VR?

Virtual Reality is the term used to describe a three-dimensional, computer-generated environment, which can be explored and interacted with.

A person becomes part of a virtual world, immersed in an environment and able to manipulate objects or perform a series of actions.

How it Works

Virtual Reality enables us to experience things we would otherwise not, by fooling the body and mind that we are really in those environments, using innovative immersion techniques.

In terms of training, this allows for a more meaningful assessment of our true reactions in various situations.

A Safe Sandbox

Wherever it is too dangerous, expensive or impractical to really perform a task, Virtual Reality is the answer. Virtual Reality allows us to 'fake' the risks to gain real-world experience.

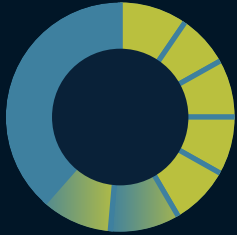
It is this ability to inject jeopardy and realism, but without danger, that makes Virtual Reality such an incredible training tool.

Deeper Learning

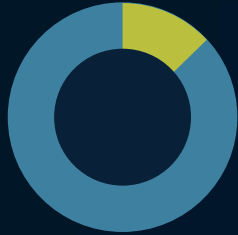


Learning and Memory

Our short term memory can only hold 5-7 chunks of information



People remember only 10% of what they hear...

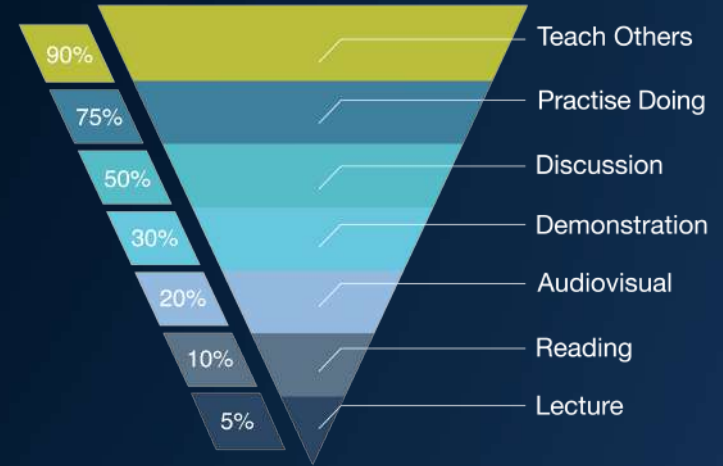


...and only 50% of what they read



Listeners only listen 25-50% of the time

Learning Pyramid



Average Student Retention Rate

Benefits to You

- **Remove the Risk, Keep the Jeopardy**

Virtual Reality training gives you the ability to immerse seafarers in dangerous situations without putting them in harm's way. They don't need to worry about making mistakes or trying out new techniques, because they are learning the ropes in a safe environment. Virtual Reality is the next best thing to face-to-face training and allows you to see how your crew will perform under pressure.

- **Transport the Learner**

Now crew can be 'onboard' a vessel, in the engine room, or on the wheelhouse by putting on a VR headset. Virtual Reality worlds give the opportunity to be at sea, while ashore. Seafarers can be trained on vessel specifics, or new equipment – without the costs or inconvenience of travel.



Benefits to You

- **All About Immersion**

Immersive learning through VR transports seafarers to an environment, in which they are completely absorbed and are able to learn from the things they experience. Not only is this a more engaging way of learning, but it also boosts retention to a much higher degree.

- **Access all Areas**

Virtual Reality provides new forms and methods of visualisation, and can more accurately illustrate physical spaces and objects, concepts, features and processes, better than other less interactive means.

- **Motivating Students**

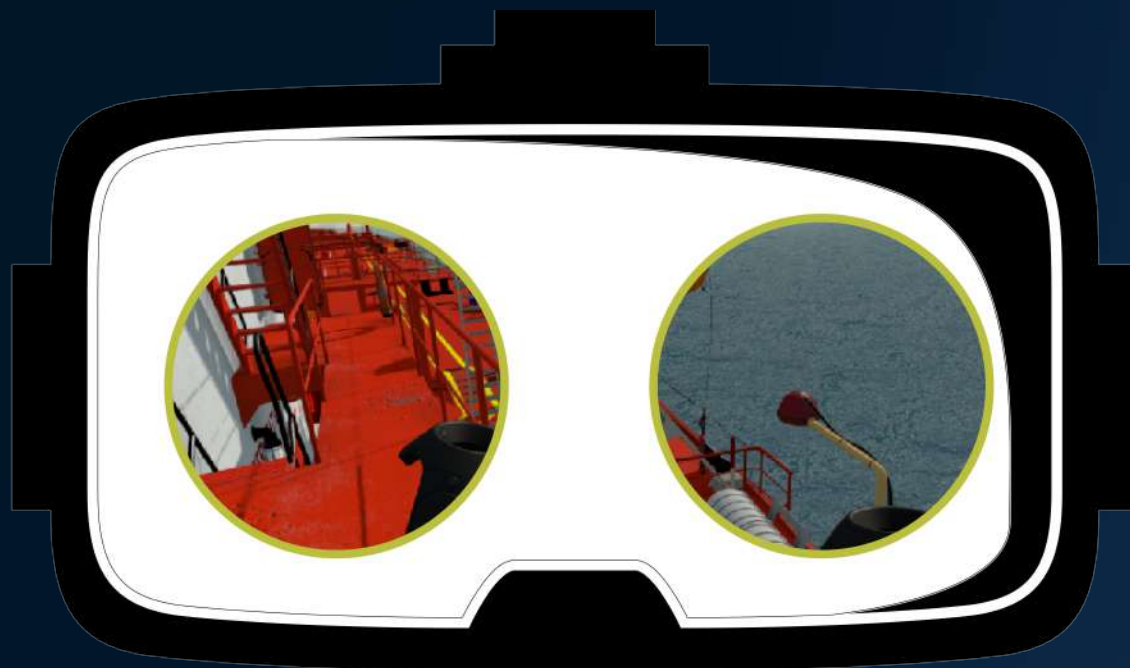
Our VR exercises are not only visually engaging, the exercises require high levels of interaction and encourage active participation. The provided haptic controllers create a real sense of agency and make the simulated world more life-like.

- **Assess with More Confidence**

Our VR modules can run in assessment mode, meaning you can assess the learners' ability to perform end-to-end operations such as safety checks, lifeboat launches, and equipment maintenance. The assessment can be recorded and scored automatically or reviewed first hand in 'spectator mode'.



Virtual Reality Training Titles



Bulk Carrier Crane Operation

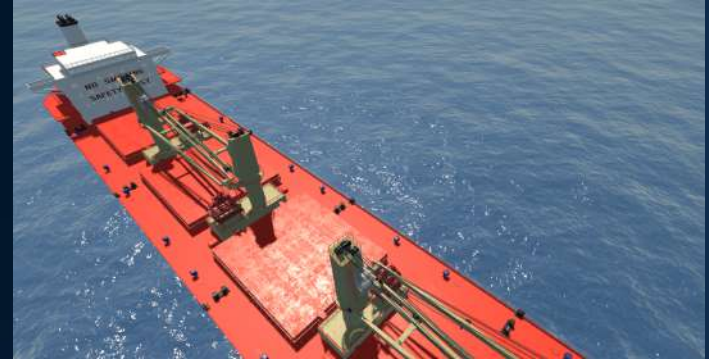
Provides the required theoretical and practical knowledge to perform safe tasks relating to the cargo crane operation onboard a bulk carrier.

Legislation & References

- Lifting Plant and Operations (COSWP), MSA
- CSS

Learning Objectives

- Show knowledge in discard criteria for crane wires
- Understand weak points of crane wires
- Know Crane Grab Maintenance Plan
- Demonstrate basic crane operation



Emergency Fire Pump

Focuses on SOLAS requirements regarding the emergency fire pump and is based on the most repeated weaknesses recorded by PSC.

Legislation & References

- SOLAS Convention, A as amended
- STCW Convention, as amended
- PSC deficiency data base
- IMO Module Course 7.01 and 7.03, 7.04

Learning Objectives

- Rules and regulations of classification society, SOLAS
- Location of the main components of the emergency fire pump
- Operational tests



Emergency Generator

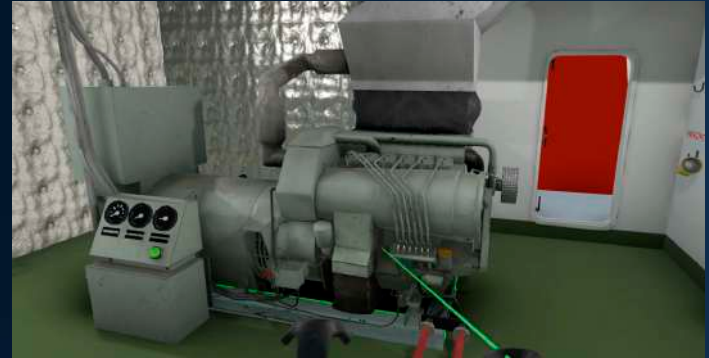
Focuses on SOLAS requirements regarding the emergency power supply of the cargo ship and practical maintenance routine and is based on the most repeated weaknesses recorded by PSC.

References

- SOLAS Convention, as amended
- STCW Convention, as amended
- PSC deficiency data base
- IMO Module Course 7.01 and 7.03

Learning Objectives

- Rules and regulations of classification society, SOLAS
- Introduction to emergency generator
- Emergency generator routine maintenance
- Familiarisation with equipment which gets its supply from emergency generator



Fixed Deck Foam Fire Fighting

Focuses on simulation of operation with Fixed Deck Foam Fire Fighting System and includes the most repeated weaknesses recorded by PSC.

Legislation & References

- STCW Convention, as amended
- PSC deficiency data base
- IMO Module Course 1.01 and 1.02

Learning Objectives

- Rules and regulations of classification society, SOLAS
- Fixed Deck Foam Fire Fighting System routine maintenance



Helicopter Operation

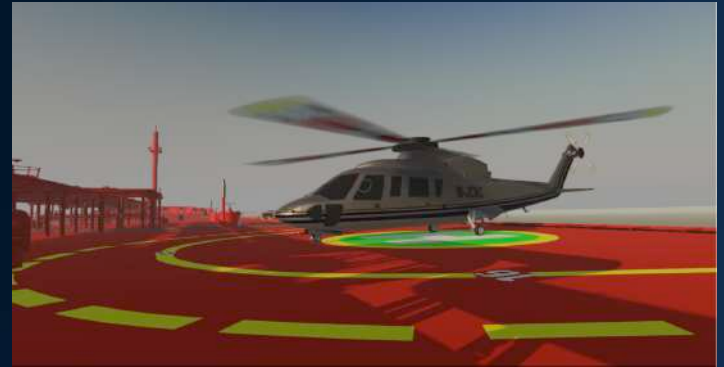
Provides the required theoretical and practical knowledge for crew involved in helicopter operations onboard merchant vessels.

Legislation & References

- ICS Guide to Ship Helicopter Operations
- SOLAS Convention, as amended
- SIRE VIQ

Learning Objectives

- Be familiar with procedures
- Be familiar with best safety precautions
- Choose correct equipment
- Communication
- Know roles and responsibilities
- Follow contingency planning



Mid-Ship Crane Operation

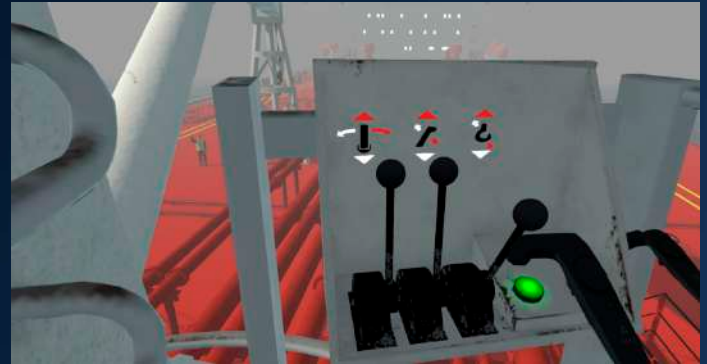
Provides the required theoretical and practical knowledge to perform safe tasks with the hose handling and crew transfer operation.

Legislation & References

- Lifting Plant and Operations (COSWP), MSA

Learning Objectives

- Give examples of the result of incorrect use of lifting components and how this can be avoided
- Show knowledge of the regulations regarding marking, documentation, use, maintenance, daily inspection and discard criteria of lifting gear
- Choose correct lifting equipment and show correct methods of use
- Direct crane operations safely using radio & hand signals
- Develop and follow a lifting plan and risk assessment



Practical Examination of Fire Fighting Equipment (FFE)

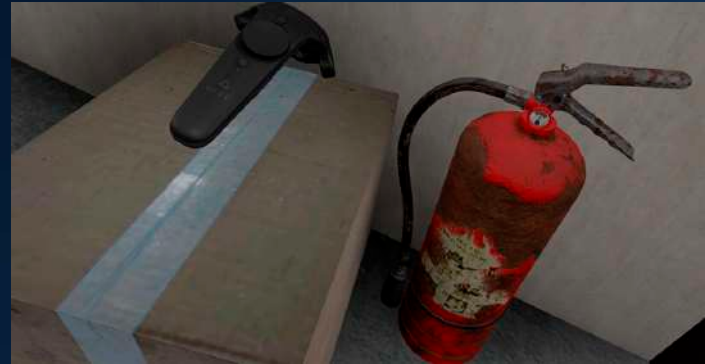
Focuses on efficient examination of Fire Fighting Equipment (FFE) and is based on the most repeated weaknesses recorded by PSC.

Legislation & References

- PSC deficiency database

Learning Objectives

- Examination of fire doors
- Examination of fire detection system
- Examination of main fire extinguishing system
- Examination of fire extinguishers



Practical Examination of Life Saving Appliances (LSA)

Focuses on efficient examination of Life Saving Appliances (LSA) and is based on the most repeated weaknesses recorded by PSC.

Legislation & References

- PSC deficiency database

Learning Objectives

- Examination of lifeboats
- Examination of on-load release gear
- Examination of off-load release gear
- Examination of liferaft
- Examination of lifebuoy
- Examination of launching appliances for survival
- Operational readiness of RSA



Practical Examination of Load Related Items

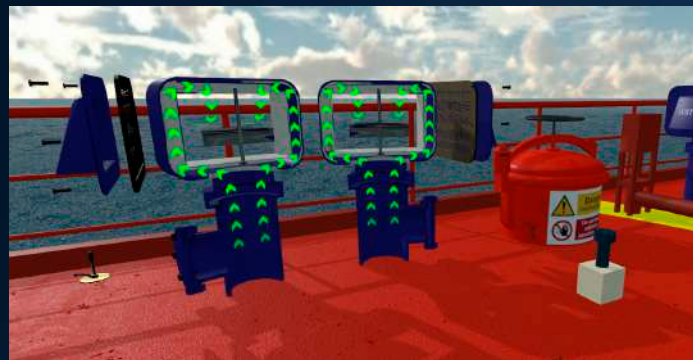
Focuses on the efficient examination of Load Line related Items and is one of the most repeated weaknesses recorded by PSC.

Legislation & References

- PSC deficiency database

Learning Objectives

- Examination of weathertight doors
- Examination of ventheads, air pipes
- Examination of cargo tank hatches



Proficiency in Survival Craft

Provides crew with the required theoretical and practical knowledge to competently launch enclosed lifeboats in heavy weather, and for 'abandon ship' drill procedures and scenarios.

Legislation & References

- STCW Table VI-2.1
- IMO Model Course: 1.23

Learning Objectives

- Introduction and safety
- Abandon ship
- Survival craft
- Launching arrangements
- Evacuation and recovery of survival craft
- Lifeboat engine and accessories
- Actions to take when aboard a survival craft
- Radio equipment
- First aid
- Drills in launching and recovering boats

Life Raft

- Auto release with Hydrostatic Release Unit (HRU)
- Manually launching



Steering Gear

Focuses on SOLAS requirements regarding the steering gear and practical maintenance routine, and is based on the most repeated weaknesses recorded by PSC.

Legislation & References

- IACS Rules and SOLAS Convention, as amended
- STCW Convention, as amended
- PSC deficiency data base
- IMO Module Course 7.01, 7.03, 7.04

Learning Objectives

- Rules and regulations of classification society, SOLAS
- Location of the main components of the steering gear
- Operational tests
- Emergency steering



Tanker Operation

Focuses on the relationship between human attitude and a safe and efficient operation of tankers as per ISGOTT, with regards to the Ship Shore Safety Check List.

Legislation & References

- ISGOTT 5th Ed.
- IMO model course 1.01

Learning Objectives

- Oil tanker familiarisation
- Tanker operation
- SSSCL
- Safety culture onboard tanker



Wall Wash Test

Provides necessary theoretical and practical knowledge to crew for successful demonstration and competency of wall wash test requirements and procedures onboard a chemical tanker.

Legislation & References

- IMO Model Course: 1.03
- STCW Table A-V/1-1-3

Learning Objectives

- Introduction and safety precautions
- Familiarity with wall wash test equipment
- Choice of correct chemicals for onboard wall wash test
- Familiarity with sample collection procedure
- Test for presence of hydrocarbon
- Test for presence of chlorides
- Permanganate fade time test
- Demonstrate acid wash colour of aromatic hydrocarbons
- Provide interpretation of wall wash results



Next Steps

Ask us for further information
or to arrange a demo:
salesteam@videotel.com

Check out our website:
videotel.com/vrtraining

