

National Transportation Safety Board

VESSEL OPERATIONS

Training Vessel Crews

Carnival Corp.'s program to provide standardized initial and annual recurrent training to all deck and engine officers

Captain Hans Hederstrom, FNI
Managing Director, CSMART
www.csmartalmere.com

The Aim with the Training

Is to create resilient socio-technical systems, where disturbances are anticipated and managed ... well before leading to negative consequences.



Simulator Training

Technical Skills



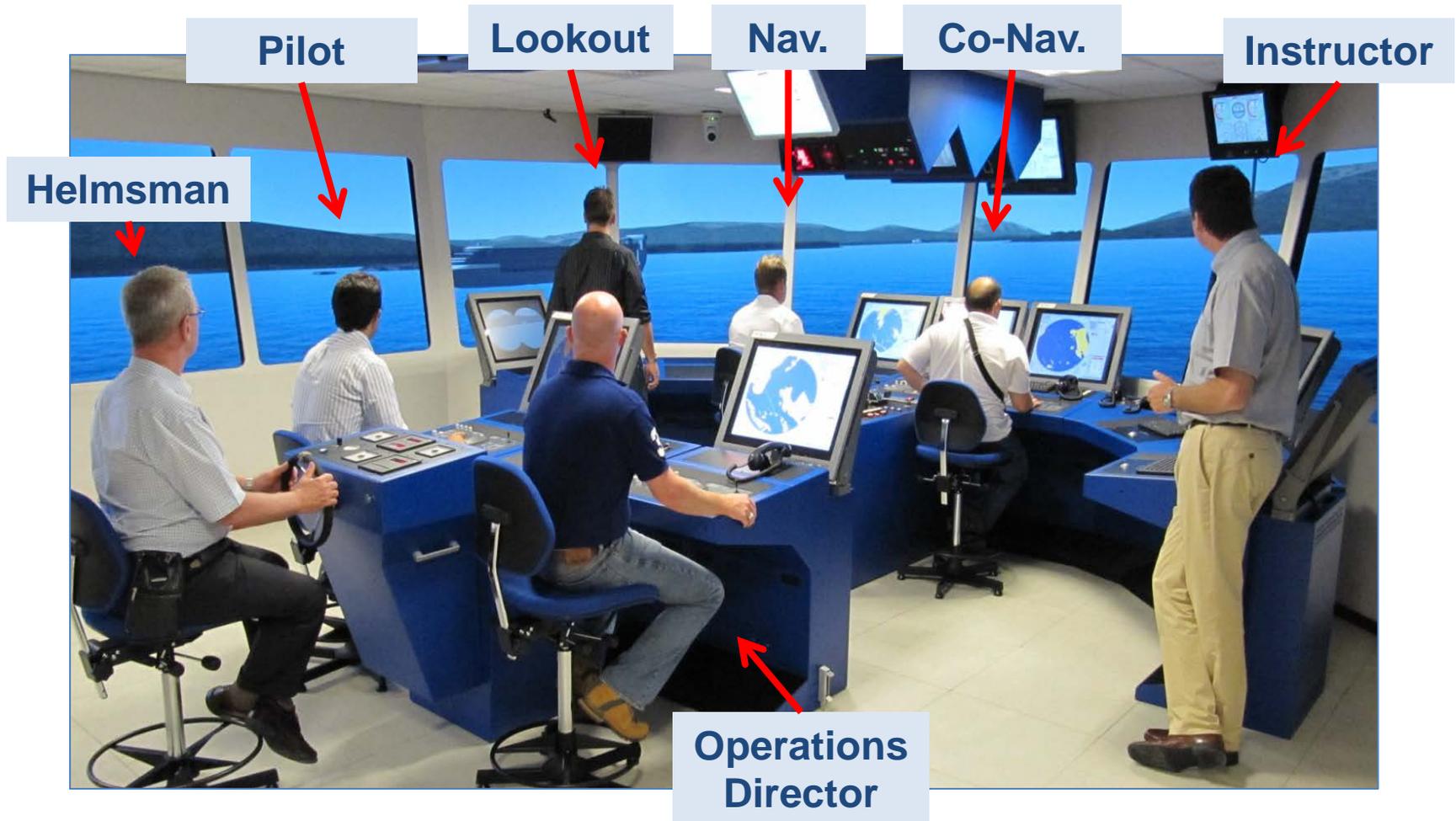
ECDIS - NACOS 1

- IMO Model Course 1.27
- Type Specific Training on the NACOS system

ECDIS - NACOS 2

- Corporate Voyage Planning Procedures
- In depth use of Integrated Navigation Systems & Track Pilot system

BRM 1 & 2 - Training With Focus On Organisation, Procedures & Human Factors



Ship Handling



Ship Handling 1

Developing a foundation for understanding forces acting upon a ship

Ship Handling 2

Challenging situations, due to environmental conditions and/or breakdown of essential components

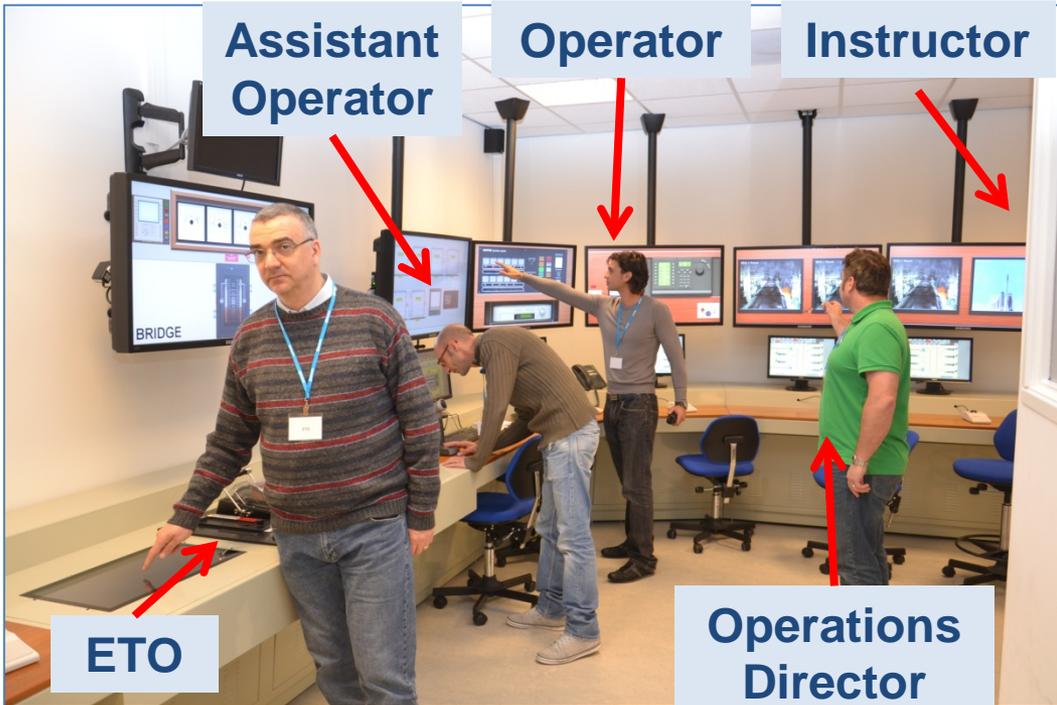
In both courses the use of technical skills, BRM & SOP's are emphasized

Carnival Corp. Training Requirements - Deck Officers

Mandatory Courses	Assistant officer on watch	Senior Deck Officers & Officers on watch	Master & Second in Command
Ship Handling 2			
Ship Handling 1			
Ship Stability			
BRM 2			
ECDIS – NACOS 2			
BRM 1			
ECDIS – NACOS 1			

ERM 1 & 2 - Training With Focus On Organisation, Procedures & Human Factors

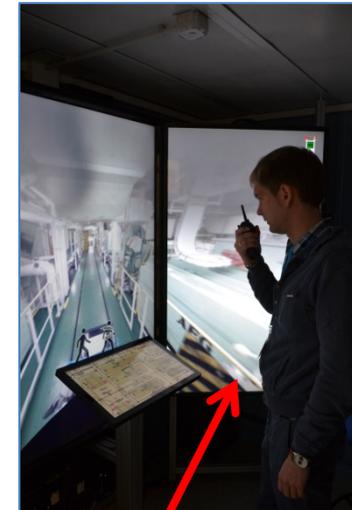
Control Room



Engine Room

Fwd ER

PEM Rm



Co Operator



Motorman

Carnival Corp. Training Requirements Engineers

Mandatory Courses	Junior Officer on watch	Senior Officer on watch	Chief & Staff Chief Engineer
ERM 2			
High Voltage			
ERM 1			
Automation			

Carnival Corp. Recurrent Training & Proficiency Check

Required Annually as of 2015:

- Two day evidence based recurrent training
- Two and a half day Proficiency Check
- Onboard Line Check

CARNIVAL CENTER OF EXCELLENCE OPENS FOR OPERATION 2016

