Transas offshore simulator is designed for training of teams involved in transfer and supply of anchored mobile offshore units.

The system is intended for education of:

- MOU personnel (oil installation manager, MOU DP master, anchor winch operator, offshore crane operator)
- AHT personnel (AH winch operator, DP master/navigator)

**TRAINING LEVELS**
- Introduction course: basic training for personnel without anchor handling experience
- Team performance training: training for bridge and deck teams performing anchor handling operations
- Troubleshooting: training for personnel involved in emergency situations

**COMPLIANCE**
To ensure education to the highest industry standards, the simulator is designed in line with the following regulations:
- UKOAA Guidelines for Safe management and operation of offshore support vessels
- Norwegian Oil Industry Association (OLF NSA) Guidelines for safe anchor handling and towing
- IMO recommendations on training of personnel on mobile offshore units
- DNV: Anchor handling and DP simulator
- Nautical Institute: DP simulator requirements
INSTRUCTOR CAPABILITIES

Interactive instructor panel provides quick access to exercise objects and allows selecting any object, adding/deleting and moving/rotating it, connecting/disconnecting wire, chain, chaser, anchor, and dragging object (applying force or moment). Quick view camera control adds more flexibility to the exercise management, allowing prompt switching between bird view, deck, winch, and anchor view. Instructor also can define camera position himself. Finally, instructor has full control of deck equipment.

ANCHOR HANDLING TUG MODELS

Models are based upon the model ‘Template’ design, allowing for easy customization with the help of the Transas’ ‘Virtual Shipyard’ model editing tool. A full range of vessel types can be created, including vessels equipped with Dynamic Positioning System, with the characteristics required by the customer.

Ship: Norskan Copacabana
Platform: MOSS CS50 Mk II
MODELLING OF ANCHOR HANDLING OPERATIONS

Transas Offshore Simulator features a detailed model of deck equipment, an accurate model of anchor handling operations, interactive control of anchor handling operations and flexibility in building scenarios for various anchor-handling methods.

The system faithfully simulates interaction of all objects involved in the process. The entire winch system is modelled including anchor handling/towing winches, secondary winches and tugger winches.

The pin system includes retractable pins, shark jaws and stern rollers.

Various anchor handling methods can be practiced in the simulator:
- run/retrieve anchor using PCP
- install/remove insert wire
- run/retrieve anchor using buoy and pennant wire
- retrieve anchor using J-Hook
- install/retrieve a pre-laid system

DYNAMIC POSITIONING SYSTEM TRAINING

The simulator enables:
- Holding position and course, manoeuvring in various sea and weather conditions, anchor handling
- Oil spill response and rescue operations training
- Incorporation of customer-defined exercise areas and customer’s ship controls

DPS hardware and software as per today:
- NAVIS IVCS solution
- Rolls-Royce solution
- Marine Technologies solution

Other systems can be interfaced upon request.

OIL RIG CRANE OPERATIONS

The simulator provides oil rig crane operator training. The following operations can be practiced:
- Transfer/receive PCP
- Transfer/receive cargo