



**ROGALAND  
KRANSKOLE**

**Facts about Rogaland Kranskole:**

- Founded in 1991
- Trained more than 1200 persons in offshore crane simulator since 2003
- Experienced instructors who works to date as offshore crane operator offshore

**Europe's biggest and most realistic offshore crane simulator!**





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The virtual reality environment of the simulator allows dangerous operating scenarios to be run, and the operator's competence is being evaluated under pressure. Also to assess the lifting team included banksman and slinger and how the risk awareness for the whole team is, and how they work together.

## Specifications

- Doom diameter: 7m
- Real size offshore crane cabin (donated from BP)
- 16 high resolution projectors to make the most realistic world inside the doom
- Perfect seamless view from the eyes of the crane operator in all viewing directions from within the cabin
- 2 different work stations for both signaller and slinger. Both provided with stereo (3D) capability using active shutter glasses
- Advanced and comprehensible controller station for the instructor
- Debrief station with record and playback functionality
- Record- and storing possibilities for each training scenario that can be delivered to our customers on request.



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The exercising of such scenarios boosts the operators' confidence in their future ability to deal with any potentially hazardous incidents and situations that they might encounter.



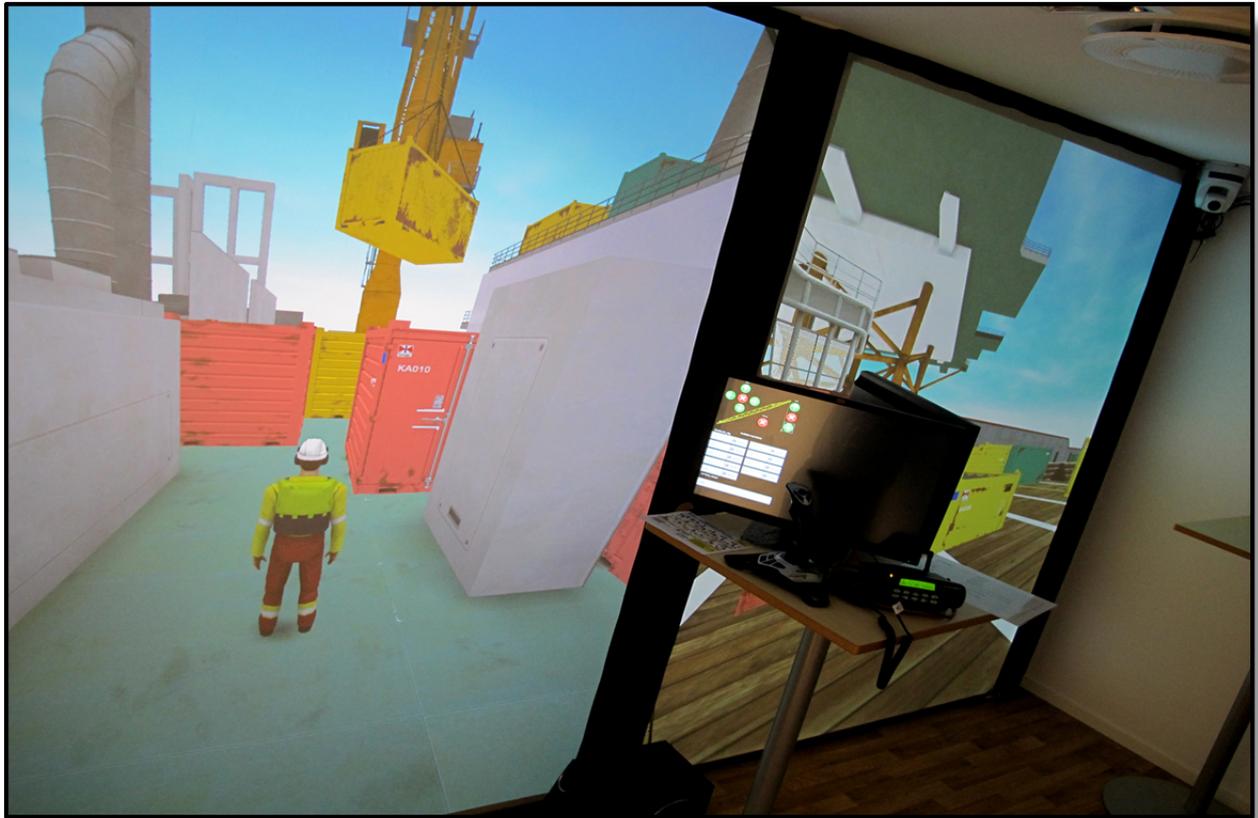
## **Crane operator**

- Will be trained in the most realistic surroundings
- Full 210 degree view
- Full scale emergency testing
- Crane cabin 100 % realistic
- Air condition in the crane cabin
- Steinco security system



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In- depth understanding and experience in day-to-day operations will help operators more quickly and effectively to generate the operating revenues and profits required from the unit.



## **Banksman and slinger station**

- Realistic experience
- Easy to handle with touch screens
- Fast toggling between each load zone
- Focus on barriers
- Pre- check of containers, fluid tanks, pipe-stacks etc.
- Possible for the instructor to add various defects and deficiencies on containers, tanks, etc.
- 2 cameras for instructor to monitor the actual events



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In addition to train crane operators and deck personnel, the simulator can also be used as a “test unit” for special lifting operations as well as modification of existing rigs. Since 2003 we have carried out several successful projects with different companies regarding these challenges.



### Riggs and vessels

- **Eirik Raude** - Ocean Rig (implementet)
- **Ekofisk J** - Conoco Phillips Norge (implementet)
- **Valhall PH** - BP Norge (soon to be implementet)
- **Vessel:** ?
- Any rig or vessel can be implemented on request
- Very realistic environment both on rigs and vessel
- Smooth and very nice graphics



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#### Course content theory:

- Norsok Standard R003
- Norwegian Environment Act
- Norwegian legislations
- The Petroleum Safety Authority – PSA
- Norwegian Maritime Directorate



### Instructor Station

- Easy to operate for the instructor
- Good overview
- A large variety of incidents and faults to activate
- A large variety of weather conditions
- Nice and logical interface
- 3 cameras for instructor to monitor the actual events for each role (crane operator, signaller, slinger)



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#### Course content simulator exercises:

- Planning and preparation of crane operations
- Communication during operations
- Internal transport on the installation
- Loading and unloading supply vessels
- Pre-check of containers, fluid tanks, pipe stacks etc.



### Debriefing station

- Gives the crew a complete overview over the rigs and vessels so they can plan the operation 100 %
- Easy to point out failure that happened in the scenario
- Great space to sit and plan
- Playback of each scenario
- Evaluation of each scenario
- Discussions - lessons learned
- Feedback



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**Course content simulator exercises:**

- Safety functions on the crane
- Special lifting
- Critical-/ emergency situations
- Teamwork as a crew
- Evaluation after each scenario



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