National Oilwell Varco has opened Offshore Crane Simulator Center in Molde, Norway.

A modern simulator atrium houses a 6.5 meter dome combined with our newest full-scale offshore crane cabin. The simulator atrium contains the center building known as “The Cube” with two separate deck operator stations, and instructor station. It also houses a crane emulator, which is a smaller version of the simulator.

**Simulator:**
The simulator is designed and built by NOV’s simulation group. Our simulation group has vast experience with simulator construction, having built our first state-of-the-art drilling simulator in 2010. The Crane simulator is fitted with the new NOV offshore crane cabin, which is fully equipped as a standard crane cabin with all features included. It is also equipped with full crane PLC and software, conducting all the functions of an actual crane, as well as all crane specific functions on the CCD (crane control display). The simulator is also equipped with the most realistic visual and dynamic technology available. Both Knuckle boom and Lattice boom offshore cranes will be provided with this simulator.

The simulator will be classified as Class A simulator according to the new requirements included in NORSOK R003 for certified offshore crane simulator training. Additionally, it is also classified as Class P simulator, product specific offshore crane simulator, according to Standard DNVGL-ST-0033: 2014-08.

**The Cube:**
Deck Operators have separate workstations, where they “work on deck” in front of large screens communicating with the crane operator by radio.

A separate debriefing room is used for planning and reviewing lifting operations.

The crane emulator is mainly used in our product specific operator and instrument courses. We can exercise tandem lifts in connection to the simulator, to simulate and practice various lifting operations.
Educational initiatives/Certified training:
In connection with the simulator construction, we offer following educational initiatives:
- G5 Offshore OP Course Stage 2 Module O-2.1
- G5 Offshore Simulator Training Stage 3
- G5 Offshore Crane Operator Re-training
- Deck Operator Simulator Training

The NORSOK R-003 standard is currently under revision, and the training courses we offer will be certified according to the new revision of the standard. Course descriptions are listed in NOV’s crane and winch product flyer under chapter: Certified training.

NOV is a leading product provider of offshore cranes, and our product knowledge and experience is implemented in our training courses.

Another advantage is that emergency functions and other equipment features, similar to the customer’s crane, will be simulated in a realistic environment. NOV Rig Systems training offers a wide variety of services to help you receive the best and safest performance from your equipment when out in the field.

In addition to certified simulator re-training, personnel offshore are required to attend equipment specific training to obtain the needed knowledge for safe and successful operations. By choosing NOV, the customer can combine a variety of training needs.

Target groups:
- Offshore crane operators in the Norwegian offshore sector. Regular refresher training is mandatory and should be carried out at least every three years. Crane Simulator should be used during the training.
- Deck operators and operational responsible involved in lifting operations with offshore cranes.