



New K-Sim Safety provides an efficient training solution for officers in advanced firefighting. The system includes an interactive 3D walk-through animation of the entire engine room and four upper decks

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## Kongsberg Digital: Advanced new firefighting simulator improves maritime safety training

**Asker, January 23, 2019** – Kongsberg Digital has unveiled an innovative new simulator solution for training officers and crew in advanced firefighting. Providing vital education for preparedness in accordance with the STCW Code requirements, K-Sim Safety offers high fidelity simulation covering all aspects of fire safety. K-Sim Safety contributes to reducing the impact of fire on board as well as planning strategies and tactics to control fire in various parts of the

ship, enabling a safer and more effective response to incidents when they occur.

K-Sim Safety delivers practical exercises simulated in a realistic environment and meets the STCW regulation VI/3, section A-VI/3 table A-VI/3-1, where methods for demonstrating competence in firefighting, and search and rescue on board are described as: Control firefighting operation on board ships; Organize and train fire teams; and inspect and service fire detection and extinguishing systems and equipment.

K-Sim Safety is based on a detailed 3D representation of a 152,000 dwt double hull Suez Max crude oil carrier with 7 decks, which allows trainees to assess situations and determine the best response strategy, implement it and then observe the consequences of their decisions during a debriefing. Integration with K-Sim Engine and K-Sim Cargo simulators, as well as K-Sim Navigation also offers the possibility for crew resource training where actions on one simulator will directly affect others. This approach engenders more focus on clear communication between different roles on board.

As a full mission training system, K-Sim Safety includes two separate fire team muster stations with a detailed 3D virtual hotel & machinery space application, visualised in an interactive 3D walk-through animation of the entire engine room and four upper decks. It features high quality object and equipment models combined with powerful incidental visuals including fire & smoke, flooding, and missing persons to ensure a highly realistic scene.

During exercises, each fire team – consisting a team leader, an assistant and two smoke divers – can walk around selected areas of the ship using an Xbox controller. Should the scenario call for smoke divers to split from the team, they can move to a separate area and continue the exercise using their own controllers and monitors. K-Sim Safety also includes the same state-of-the-art instructor, monitoring and assessment system used on KONGSBERG's K-Sim Engine and K-Sim Cargo simulators, providing deep control of exercises and extensive debriefing and advisory tools.

*“Traditional fire safety training methods can be complex, costly and time consuming, placing pressure on both company and crew,” said Leif Pentti Halvorsen, Vice President Products, Maritime Simulation. “By migrating training to a simulated environment using K-Sim Safety, ship officers and crew can experience an incident as if it happened in real-life, while maritime training*

*providers can develop a more streamlined safety training strategy with a low investment and increased pedagogical value.”*

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**About Kongsberg Digital**

Kongsberg Digital is a provider of next-generation software and digital solutions to customers within maritime, oil and gas, and renewables and utilities. The company consists of more than 500 software experts with leading competence within the internet of things, smart data, artificial intelligence, maritime simulation, automation and autonomous operations. Kongsberg Digital is one of three business areas of KONGSBERG, an international, knowledge-based group delivering high technology systems and solutions to clients within the oil and gas industry, merchant marine, defense and aerospace, renewable energy and the utility industry. KONGSBERG has 7,000 employees located in more than 25 countries and total revenues of NOK 14.5 billion in 2017. Follow us on Twitter: @kongsbergasa.

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