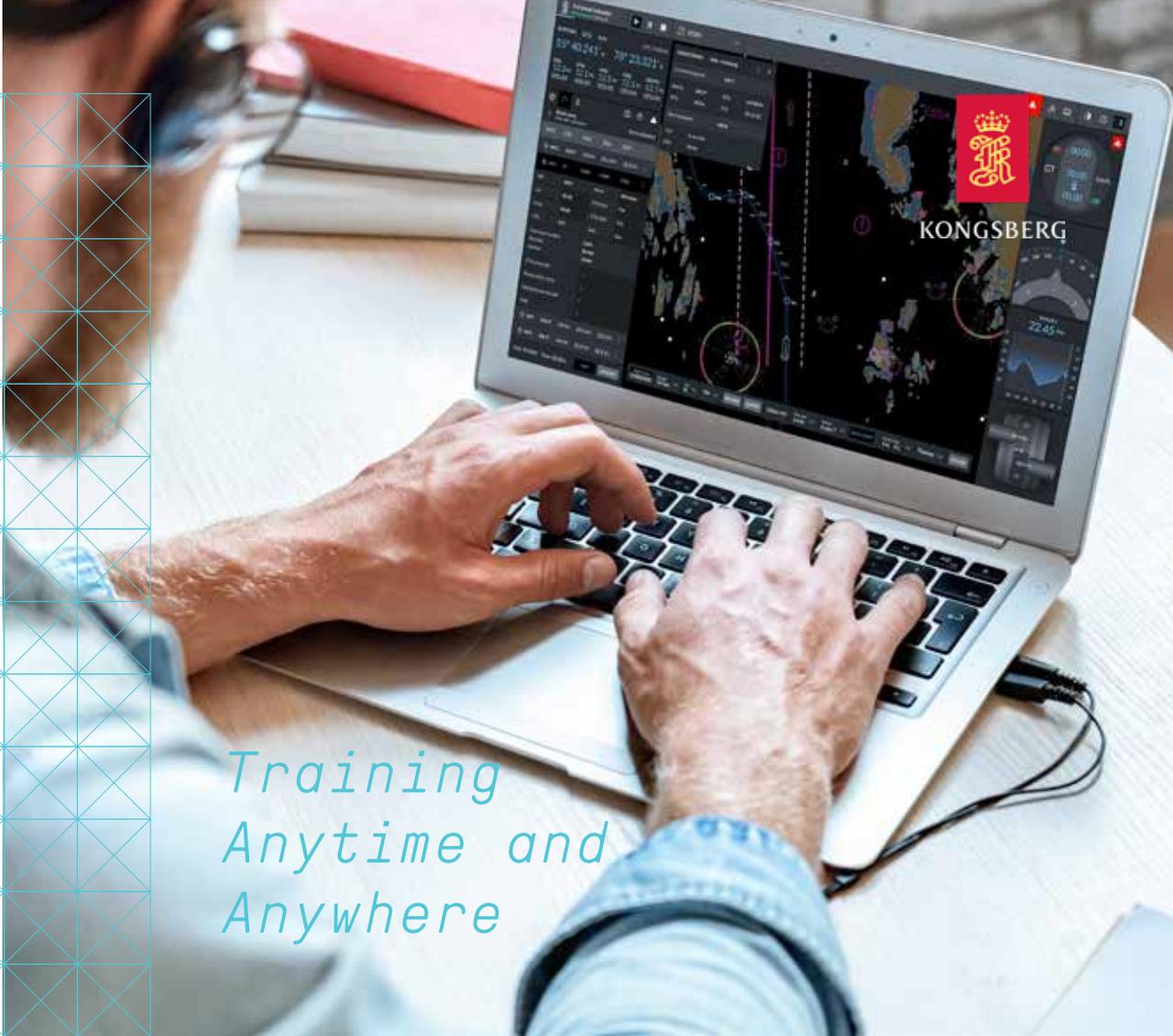# K-SIM® ECDIS

Training Anytime and Anywhere

K-SIM CONNECT

K-Sim Connect is our cloud-based eco-system for maritime education and training through which KONGSBERG provides cloud-based simulation and services to all members.

On this platform, we currently offer a range of subscription-based solutions of benefit to the users, and we are continuously creating additional services for the community.

Solutions available today:
· Online training applications for the existing K-Sim simulators
· Library of K-Sim Engine, K-Sim Cargo models and K-Sim Navigation vessel models
· Library of exercise areas
· Latest simulation news, user stories and research articles
· Information and invitations to User Conferences
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www.ksimconnect.com

ECDIS SIMULATION SYSTEM COMPLIANT WITH STCW TRAINING REQUIREMENTS AND IMO MODEL COURSE 1.27

K-Sim® ECDIS

K-Sim ECDIS is a new cloud-based training solution designed to provide generic ECDIS training in compliance with the requirements laid out in the IMO Model Course 1.27.

Accessible as an online training solution on KONGSBERG's digital platform K-Sim Connect, it enables schools and training centers to efficiently provide their students with high quality ECDIS training anytime and anywhere, without the need for major hardware investment.

Based upon several key elements from Kongsberg Maritime's real-life K-Nav ECDIS, K-Sim ECDIS accommodates relevant and necessary functionality for instructing students in the key operations of electronic charts, route planning and navigation.

The system is delivered as a complete training package and includes ready-made simulation exercises. When the students have completed the exercise, instructors can download an assessment file with the score to give personal feedback.

KONGSBERG — K-Sim ECDIS Brochure

Learning objectives

Designed to comply with the IMO Model Course 1.27, K-Sim ECDIS covers the learning objectives of the operational use of ECDIS, for generic ECDIS training, including:

- Understanding the key operations of ECDIS navigation and the use of electronic charts
- Operating the system with available functions in order to navigate safely under all conditions
- Setting safety values
- Recognizing alarm and malfunction indicators and actions to be taken
- Operating basic navigational and specific functions of ECDIS for route planning, valididation and monitoring

Features

- Route planning directly in the chart
- ENC charts with controls (Subscription dependent)
- Chart tools: EBL/VRM and Parallel index lines
- Route validation
- Route monitoring
- Grounding alarms
- AIS and ARPA targets
- RADAR overlay

Rethink training - implement blended learning

The new K-Sim ECDIS seamlessly integrates with school-based simulators such as K-Sim Navigation and K-Sim Radar and allows for highly effective blended learning. When combining cloud-based and classroom instruction, the students can benefit from volume training and improve their learning outcomes. With the K-Sim ECDIS cloud-based solution they can use their own PC and train anytime and anywhere, prepare in advance of classroom education and also repeat exercises after simulator classes.

Plan and optimize the voyage

Planning the routes are vital to any shipping organization, linking business objectives with the daily operation of the ships in the fleet.

K-Sim Planning Station is an application to manage, plan, validate and share routes. Included with K-Sim ECDIS, this cloud-based service can also be used as a standalone route planning system.

K-Sim Planning Station is designed for route planning and optimization with ENC chart support and route validation. It allows students to plan their own routes and to practice skills prior to, for example, simulation training online or at an on-site simulator.

Exchange of route plans to a wide range of applications anytime and anywhere

The K-Sim Planning Station supports import and export of the commonly-used RTZ route format to a wide range of applications. This enables, for example, exchange of routes to any ECDIS system, whether installed at a school for type-approved ECDIS training or a fully operational system installed onboard a ship.

In addition to its training benefits, the K-Sim Planning application can be used to relay voyage plans from ships to management teams on land, who can recommend and optimize main and alternative routes for one or more vessels.

Features

- Route planning directly in the chart
- ENC charts with controls (Subscription dependent)
- Professional route validation
- Portfolio of ship models for route validation
- Set safety parameters
- RTZ-format, enabling export of the route to any approved ECDIS
- Route overview for all own routes in K-Sim Connect
- Chart tools; EBL/VRM and Parallel index lines

Our solution is leveraging proven and certified software technology currently used in the KONGSBERG navigation suite K-Nav. We are combining it with the leading edge cloud technology by Microsoft Azure to offer availability across locations at land and at sea, with the professional qualities of an operational system.

The cloud-based ECDIS training application is ideal for volume training both at home or in a classroom situation.

K-Sim ECDIS includes AIS and ARPA targets and is delivered with RADAR overlay for e.g blind navigation.

A configurable sidebar includes navigational instruments such as Throttle, AP, SS, Gyro, Magnetic, Doppler, Echo, GPS and Weather indicator.

K-Sim ECDIS is the second in a line of cloud-based training applications within the K-Sim Navigation portfolio on K-Sim Connect. Supplemented with K-Sim Radar and additional functionality, K-Sim Navigation will constitute a complete cloud-based training solution, compliant with all the requirements for ship officer training as stated in the STCW convention.

A CLOUD-NATIVE SOLUTION

Our cloud-based K-Sim ECDIS solution is available on K-Sim Connect, our platform through which we provide cloud-based simulation services to the maritime education and training industry. The instructor tool is easy to use and enables instructors to efficiently manage and distribute exercises to students, with cutting-edge ECDIS simulations.

In contrast with many similar online training solutions, Kongsberg Digital's cloud-based simulations solutions are truly cloud-native, which means that the simulations operate 24/7 without any need to limit the number of instructors and students running exercises at the same time, or for the instructors to book a timeslot on a remote simulator to provide the exercises. Also, there is no need to worry about versioning and compability of software content.

REQUIREMENTS

- The K-Sim Connect web portal can be accessed by any web browser on any platform, but is optimized for Google Chrome
- An internet connection is required at all times during the simulation

READY-MADE EXERCISES

K-Sim ECDIS is delivered with a range of pre-made simulation exercises. As an instructor, you can choose between a selection of ship models and geographical sailing areas to meet the exact training objectives. You also have the option to connect an instructor system for creating your own exercises.

SUBSCRIPTION-BASED SERVICE

The K-Sim ECDIS training solution is a subscription-based service and the volume of use can be scaled based on how many students who require access.

If you already have a membership for K-Sim Connect, you can visit the portal's marketplace and select the subscription level that complies with your number of students and current eLearning training needs.

If you are a new user, please apply for a user access to K-Sim Connect at **www.ksimconnect.com** before following the same procedure as above.

You can also contact us directly by email or phone. The system is intuitive and easy to use, and our support team is ready to help you to get started.