

Certificate No: **001/120617** DNV Id.: **179679**

PRODUCT CERTIFICATE

Particulars of Product

Name of Product: Bridge Operation Simulator

Class notation: INTEGRATED SIMULATOR SYSTEM, DYNPOS (SIM),

HSC, TUG, ICE)

Type designation: K-Sim Navigation & Offshore (Bridge A)

In use for simulation at: Kongsberg Maritime Training, Grilstad - Trondheim

Particulars of Manufacturer

Manufacturer: KONGSBERG DIGITAL AS - Maritime Simulation

Manufacturer address: Horten, Norway

This is to certify:

That the above product is found to comply with Class A- Standard for Certification of Maritime Simulators No. DNVGL-ST-0033 March 2017.

Application

The above Standard is based on requirements in the STCW Convention, Regulation I/12.

This Certificate is valid until **2022-06-12**, provided the requirements for the retention of the Certificate will be complied with.

Issued at Sandefjord on 2017-06-12

Nils Gunnar Bøe

Area Manager

for **DNV GL**

Capt. Aksel David Nordholm

Auditor





Form code: 40.070a

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Application/Limitation

The competencies addressed by bridge operation simulator classes are given in Table B1.

Table B1 Competencies addressed by bridge operation simulator class					
STCW reference	Competence	Class A (NAV)	Class B (NAV)	Class C (NAV)	Class S (NAV)
Table A-II/1.1	Plan and conduct a passage and determine position	А	В		(S)
Table A-II/1.2	Maintain a safe navigational watch	А	В		(S)
Table A-II/1.3	Use of radar and ARPA to maintain safety of navigation	А	В	С	(S)
Table A-II/1.4	Use of ECDIS to maintain the safety of navigation	А	В	С	(S)
Table A-II/1.5	Respond to emergencies	Α	В	С	(S)
Table A-II/1.6	Respond to a distress signal at sea	Α	В	С	(S)
Table A-II/1.8	Transmit and receive information by visual signalling	А	В	С	(S)
Table A-II/1.9	Manoeuvre the ship	Α	В	С	(S)
Table A-II/2.1	Plan a voyage and conduct navigation	А	В		(S)
Table A-II/2.2	Determine position and the accuracy of resultant position fix by any means	A	В		(S)
Table A-II/2.3	Determine and allow for compass errors	Α	В		(S)
Table A-II/2.4	Co-ordinate search and rescue operations	Α	В		(S)
Table A-II/2.5	Establish watchkeeping arrangements and procedures	A	В		(S)
Table A-II/2.6	Maintain safe navigation through the use of information from navigation equipment and systems to assist command decision-making	А	В	С	(S)
Table A-II/2.7	Maintain the safety of navigation through the use of ECDIS and associated navigation systems to assist command decision making	A	В	С	(S)
Table A-II/2.10	Manoeuvre and handle a ship in all conditions	Α			(S)
Table A-II/2.11	Operate remote controls of propulsion plant and engineering systems and services	A			(S)
Table A-II/3.1	Plan and conduct a coastal passage and determine position	А	В		(S)
Table A-II/3.2	Maintain a safe navigational watch	Α	В		(S)
Table A-II/3.3	Respond to emergencies	Α	В	С	(S)
Table A-II/3.4	Respond to a distress signal at sea	Α	В	С	(S)
Table A-II/3.5	Manoeuvre the ship and operate small ship power plants	А			
Table A-II/5.2	Contribute to berthing, anchoring and other mooring operations	А	В	С	(S)

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