PRODUCT CERTIFICATE

Particulars of Product

Function Area:	**BRIDGE OPERATION SIMULATOR**
Name and type designation:	**K-Sim® Navigation Cloud**
In use for simulation at:	**K-Sim Connect**

Particulars of Manufacturer

Manufacturer:	**K-SIM AS**
Manufacturer address:	**Horten, Norway**

This is to certify:

That the above product is found to comply with Class D - Standard for Certification of Maritime Simulators No. DNV-ST-0033 June 2021.

Application

The above Standard is based on requirements in the STCW Convention, Regulation I/12 and corresponding industry standard and guidelines.

This Certificate is valid until **2027-11-01**, provided the requirements for the retention of the Certificate will be complied with.

Issued at **Horten, Norway** on **2025-04-01**

for **DNV**

This document is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication can be obtained from trust.dnv.com by using the Unique Tracking Number (UTN):

n2046789-ccj and ID: 10564901

Aksel David Nordholm
Approval Expert

Application/Limitation

The simulator can simulate a realistic environment for selected STCW competence requirement referred to in Table 3-2.

Table 3-2 Competencies addressed by bridge operation simulator class

STCW reference	Competence	Class A (NAV)	Class B (NAV)	Class C (NAV)	Class D (NAV)
Table A-II/1.3	Use of radar and ARPA to maintain safety of navigation.	A	B	C	D
Table A-II/1.4	Use of ECDIS to maintain the safety of navigation.	A	B	C	D
Table A-II/1.5	Respond to emergencies.	A	B	C	D
Table A-II/1.6	Respond to a distress signal at sea.	A	B	C	D
Table A-II/1.8	Transmit and receive information by visual signalling.	A	B	C	D
Table A-II/1.9	Manoeuvre the ship.	A	B	C	D
Table A-II/2.1	Plan a voyage and conduct navigation.	A	B		
Table A-II/2.6	Maintain safe navigation through the use of information from navigation equipment and systems to assist command decision-making.	A	B	C	D
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	B	C	D
Table A-II/3.3	Respond to emergencies.	A	B	C	D
Table A-II/3.4	Respond to a distress signal at sea.	A	B	C	D
Table A-II/4.1	Steer the ship and also comply with helm orders in the English language.	A	B	C	D
Table A-II/4.2	Keep a proper look-out by sight and hearing.	A	B	C	D
Table A-II/5.2	Contribute to berthing, anchoring and other mooring operations.	A	B	C	D

Endorsement for Annual Audits

THIS IS TO CERTIFY:

at an annual audit as required by the Standard, the Simulator System was found to comply with the relevant requirements of the Standard.

| 1st Annual Audit | Place: | Date: | **2024-03-20** |

Signature: ....
Auditor, DNV

Confirmed carried out

| 2nd Annual Audit | Place: | Date: |

Signature: ....
Stamp   Auditor, DNV

| 3rd Annual Audit | Place: | Date: |

Signature: ....
Stamp   Auditor, DNV

| 4th Annual Audit | Place: | Date: |

Signature: ....
Stamp   Auditor, DNV