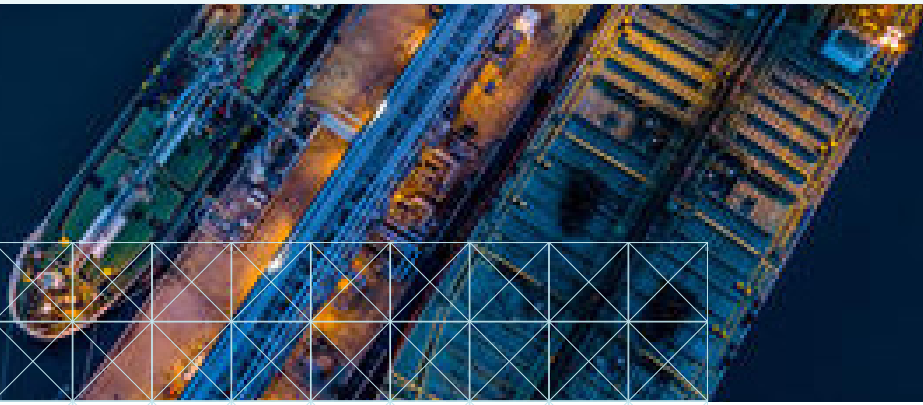


# HAIN REFERENCE

## OPERATOR COURSE



KONGSBERG



### COURSE DESCRIPTION

#### LEARNING OBJECTIVES

After the course, the successful participants can:

- Explain the benefits of HAIN positioning
- Explain basic principles of inertial navigation
- Explain the acoustic aid used in HAIN
- Set up and operate HAIN from APOS
- Identify and handle errors in HAIN

#### TARGET GROUP

Navigators, electricians and DP operators

#### ENTRY REQUIREMENTS

Basic APOS knowledge is required

#### CONTENT

- HAIN theory including
  - IMU and Inertial navigation
  - Acoustic aid
  - Kalman filter and HAIN positioning
  - The benefits of HAIN positioning
- Setting up HAIN
- Initializing and operating HAIN in APOS
- Discussions of error situations
- Discussions of parameter settings
- Data files in APOS and HAIN computers
- How to transfer data to KM for analysis
- Customer support

#### LEARNING PROCESS

The training is a combination of theoretical lessons and practical exercises. The hardware exercises are done in a lab with real equipment. The HAIN operational training is performed on a simulator that duplicates the situation on an offshore vessel.

#### DURATION

1 Day (0900-1345)

#### NO. OF PARTICIPANTS

Maximum 9

#### SPECIAL INFORMATION

- A theoretical assessment is conducted
- The course is dependent on basic APOS knowledge. If your APOS knowledge is rusty it is recommended to take the HiPAP LBL course previous to the HAIN training

#### LANGUAGE

English if not otherwise agreed.

#### CERTIFICATE

Certification of attendance will be issued upon successful completion of the course.

#### BOOKING & INFORMATION

[www.km.kongsberg.com/training](http://www.km.kongsberg.com/training)

#### TERMS & CONDITIONS

All training to be provided by KONGSBERG is subject to customer's acceptance of the KONGSBERG Terms & Conditions for Training.