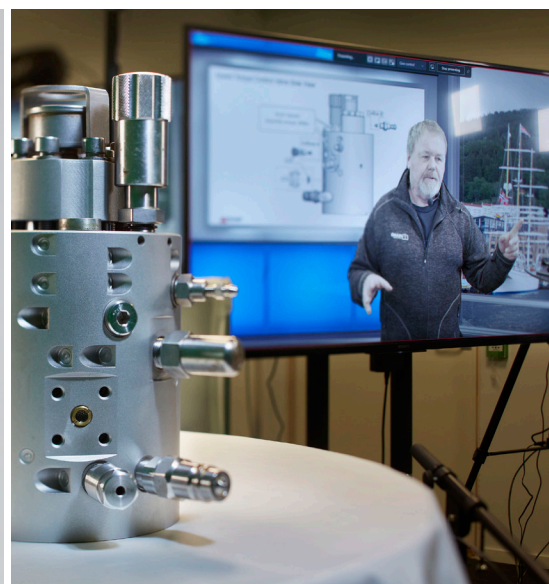


FRAMO SERVICES

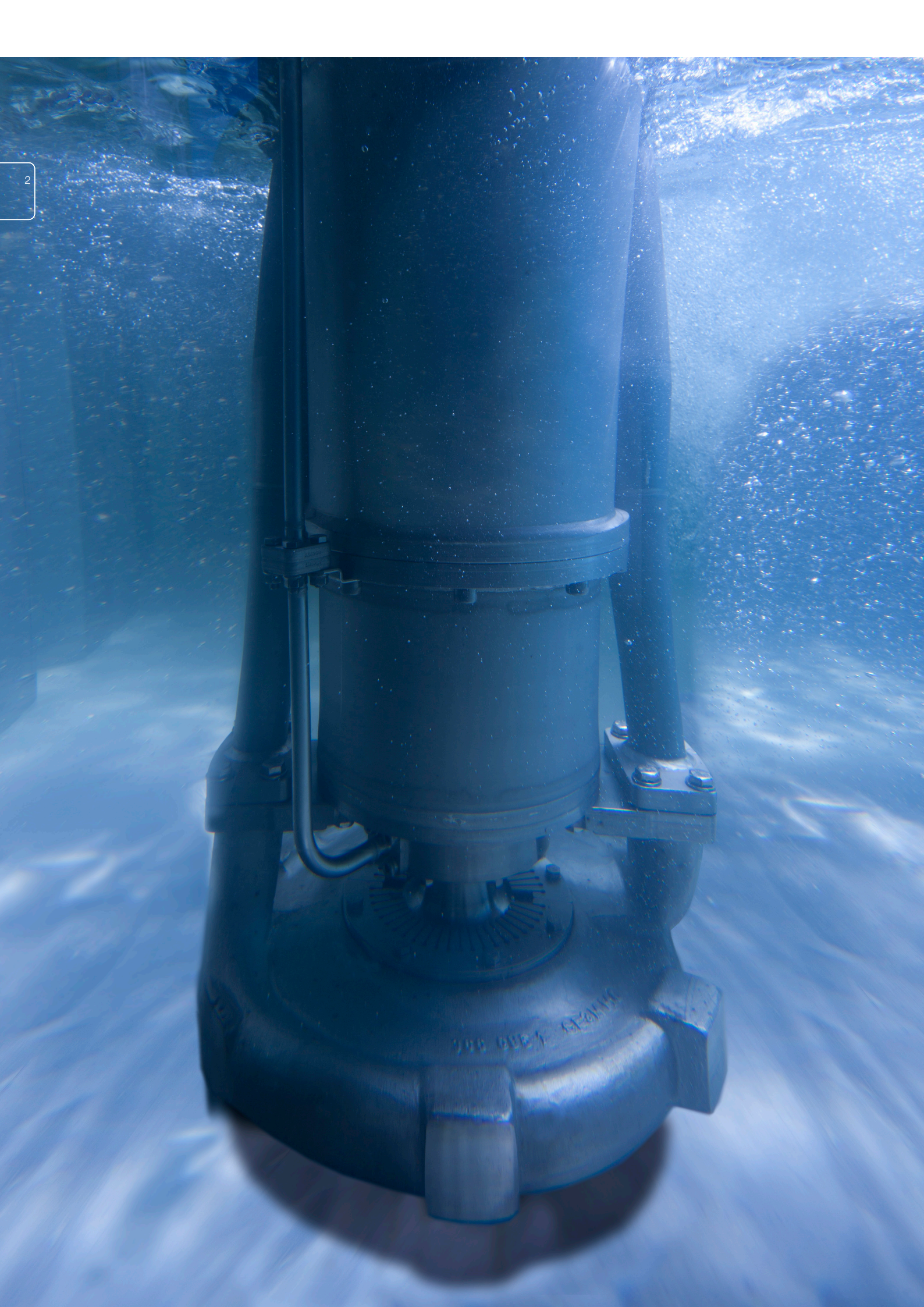
Framo training courses



TRAINING CENTER



2023



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Framo training department

Every year, Framo's training department leads over 130 courses with more than 1200 participants. Our instructors are highly knowledgeable professionals that have close to 200 years experience.



Alte
Vetaas



Hjalmar
Engum



Inge F.
Hermansen



Martin
Pedersen



Mona S.
Mostrøm

Framo training courses

Framo offers in-depth training to help you safeguard the operation of your pumping system for efficient and cost-effective performance.

Our courses provide your crew with critical skills for maintaining pumps and resolving issues on board.

Contact info

Please do not hesitate to contact our Training Department for further details or to register.

Telephone: +47 55 99 92 00

E-mail booking: trainingcourse@framo.no

www.framo.com/training



Framo training – a good investment

Training courses have been proven to help facilitate safer and more efficient cargo handling, quicker turnover and reduced maintenance and operation costs. Framo training courses offer customized training for your operations, providing your team with correct skills for maintaining Framo pumping systems. When you invest in training, you strengthen your employees' ability to perform the jobs better and give them the resources they need to feel confident.

Framo offers different training methods to build competence.

Face-to-face/classroom training

This is traditional classroom-style training delivered by an instructor. The main benefits of this method are interactivity between instructor and trainees and the ability to ask questions and tailor the structure of a course depending on the group being taught.

Hands-on training

For both our courses at our training centers and on-board training, Framo offers hands-on training,

to practicing the pump operations.

Framo online training courses

Wherever you are, you can join your virtual classroom and take part in our upcoming webinars. Online courses, which are offered regularly throughout the year, offer the best of our knowledge for your benefit. The courses combine theory with hands-on practice. Our expert instructors provide you with an online learning experience that's just like being in the classroom.

Discover how Framo courses worldwide can empower your team through training and development.



Our training centres in Bergen, Rotterdam, Houston, Singapore and Athens have test tanks for hands on practice.



Framo offers practical courses that go beyond the theory.



Framo offers in-depth training to help you safeguard the operation of your pumping system.



Framo training centre in Athens.

Framo training facilities

Framo training team arrange courses at

- Framo Training Center, Bergen, Norway – including factory visit at Framo Fusa
- Framo offices worldwide: Houston, Rotterdam, Singapore, Korea, Japan, Brasil, Dubai and China.
- Framo training tanks in: Bergen, Rotterdam, Houston, Singapore and Athens, including pumps and parts for hands-on training.
- Onboard training – Framo Instructor riding the ship for 3–5 days
- The Yard/In your office/job location – worldwide
- Online training

Framo studio

The online courses from our customized Framo studio is classroom-style training delivered by an instructor, but virtually, using web-conferencing software.

Framo training centers

Our Training Centers worldwide include test tanks, so your crew also can get out of class and use the equipment just like they would in the field. Here we practice on Framo equipment, applications and process lines on the scale of an oceangoing ship – with control and convenience that are impossible at sea.

“We are running contractual courses with several of the world’s major chemical tanker operators – with excellent results.”

Framo training courses – marine

Framo Training department provides a range of training courses on different levels to build knowledge and skills. Our course portfolio spans from online, to in-house and onboard training courses, and we offer practical courses that go beyond theory with our highly-qualified trainers.

Framo standard training seminar in operation and maintenance

The following subjects will be covered:

- Correct operation during discharging, stripping, tank washing and cargo heating
- Troubleshooting and maintenance of the main components in the system
- “Hands-on” training on main components, such as: cargo pumps, control valves, relief valves, etc.

Framo seminar for superintendents/technical operators

A 3-days seminar especially intended for superintendents and other technical operators of the Framo-equipped ships. The main subjects are:

- Technical build-up of the hydraulic systems and cargo pumps.
- Preventive maintenance
- Annual inspection
- Pre-docking inspection
- Hands-on training
- Evaluation of used spare parts
- Spare part stock on board
- Trouble shooting and repair work.
- Correct operation during loading, discharging, stripping and tank cleaning

Framo tailor-made training courses

In addition, our tailor-made courses can be arranged all year round, at our training center in Bergen, Norway, or worldwide – related to specific systems and customers. Based upon your special demands we will give you our best recommendation and special offer.

Onboard training

Particularly good results have been achieved by On Board training, where an experienced person with onboard training from Framo training team will highlight the following subjects:

- Theoretical and practical instruction of the ship’s staff.
- Operation, cargo handling, cargo pump performance curves.
- Supervise system adjustment.
- Supervise disassembling of cargo pump and check that necessary special tools exist on board.
- Check filter box, hydraulic oil tank and storage tank and bring ashore hydraulic oil samples for analysis.
- Evaluation of hydraulic system and cargo pumps (Technical Report).
- After the course is completed, a condition Report will be sent to the ship’s owner.

Certificate of competency

It is only by attending Framo training courses that employees can obtain the certificate verifying that they are trained and have the abilities required in handling Framo pumping systems safely.

Framo training certificate

For all 3-day courses with hands-on training, i.e. at our training centres worldwide and onboard / at yard, we will issue a Framo training certificate, valid for 5 years.

Framo training certificates have proven very useful for vessels and crew to prove Framo experience both for vessel qualifications and vetting inspections.

Diploma

Training diploma issued to all participants at all training courses.

Recertification

In order to renew the Framo training certification, you can register for a Framo refresher training course. Conducting retraining to refresh knowledge and cover new topics is essential to be compliant with the requirements needed to handle Framo pumping solutions.

Benefits of refresher training

Refresher training for employees can benefit an organization in several ways. Some direct advantages include:

- Increased efficiency
- Reduced mistakes
- Fostering a culture of continuous learning
- Keeping employees safe in the workplace
- Helping to identify training needs and skill gaps
- Increased employee retention (less turnover/ churn)
- Increased awareness of new products and technical information



COURSE	ISSUED	EXPIRY DATE
MD1 Standard Course	01.01.2019	01.01.2024
MD2 Seminar for Superintendent	01.01.2019	01.01.2024
MD3 On Board Training	01.01.2019	01.01.2024
MD4 Tailor made Course	01.01.2019	01.01.2024

For more information please see www.framo.com

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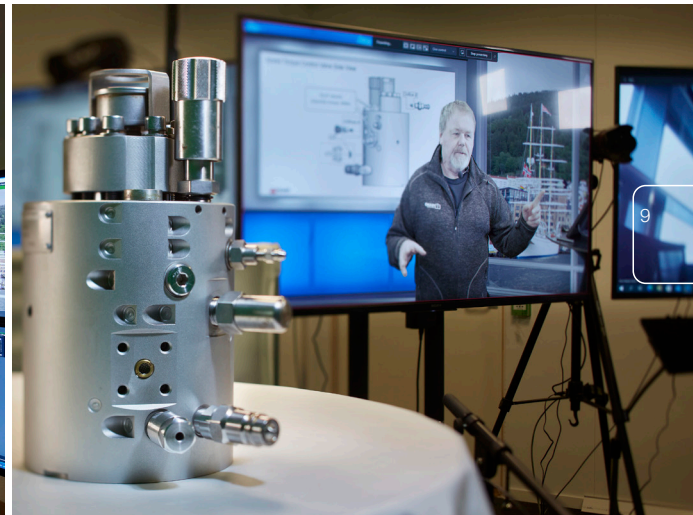
Framo offshore training courses

Framo Training department provides a range of training courses on different level to build knowledge and skills. Our course portfolio spans from online, to in-house and onboard training courses, and we offer practical courses that go beyond the theory with our highly qualified trainers.

Framo tailor-made offshore training courses

Our tailor-made courses can be arranged all year round, at our training center in Bergen, Norway, or worldwide - related to specific systems and customers. Based upon your special demands we will give you our best recommendation and special offer.

We cover all our product range and can incorporate multiple products in our training courses. The level will suit everyone from a novice to an expert course and will meet the requirements for all operators and disciplines. The training addresses the most important parts such as correct operation, technical build-up, troubleshooting and maintenance.



Framo online training courses

We offer high quality customized online training courses and learning events that cover a wide range of topics.

Whether you are at work or at home, you only need an internet connection to access the Framo online training courses. Framo training courses, which are offered regularly throughout the year, offer you all our knowledge and experience. The courses combine basic pump theory with hands-on practice. Our expert instructors provide you with an online learning experience that's just like being in the classroom.

From our customized Framo studio we can provide online courses for your needs. This is classroom style training delivered that suit by an instructor, but virtually – using web conferencing software and maintaining the interactivity between instructor and trainees.

Framo online training courses provide:

- Correct operation during discharging, stripping, tank washing and cargo heating
- Troubleshooting and maintenance of the main components in the system
- Hands-on practical on main components, such as cargo practice, control valves, relief valves, etc

Choosing an online training course enable:

- Flexible delivery dates and time zones
- Simple set-up and connection to our hosted training environment
- Savings on travel expenses
- The convenience of being able to join from home, ship or the office



Join Framo training courses

Dates and rates for Framo training courses.

Schedules

Framo offers all courses on demand and customized activities wherever you want, whenever you need. In addition, we offer the following courses at

fixed dates. For detailed description of the courses – see page 4.

Framo standard marine training courses

Rotterdam	5–7 September
Bergen¹	24–26 January, 22–24 August
Houston	7–9 March, 10–2 October
Shanghai²	21–23 March, 31 October–2 November
Athens³	7–9 February, 25–27 April, 9–11 May, 12–14 September
Tokyo⁴	4–5 October
Busan⁵	12–13 October
Dubai	21–24 November

¹ At the seminar i Bergen, day two will be at a Framo factory (Fusa)

Framo marine seminar for superintendents/technical operators

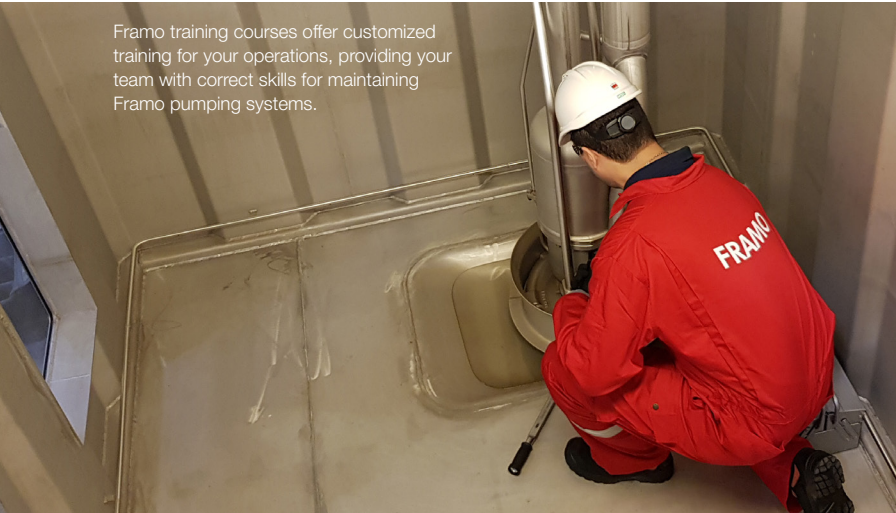
Rotterdam	24–26 January, 24–26 October
Singapore	21–23 February, 13–15 June, 7–9 November
Bergen	28 February–2 March

¹ At the seminar i Bergen, day two will be at a Framo factory (Fusa)

Our experience is that the demand for superintendent seminars is high, extra seminars will therefore be arranged accordingly.

See www.framo.com/training for all dates and courses.

Framo training courses offer customized training for your operations, providing your team with correct skills for maintaining Framo pumping systems.



Framo's highly-qualified trainers offer practical courses that go beyond the theory.



Price list

Three day Standard Courses in Operation and Maintenance at our offices in Bergen, Rotterdam, Houston, Singapore and Shanghai: NOK 12.200,- per attendant. * Prices at other venues available upon request.,

Three days Seminar for Superintendents at our premises in Bergen, Singapore or Rotterdam: NOK 12.200,- per attendant.

Tailor-made Training Courses at our Training Department in Bergen or at our subsidiaries abroad

- One day: On request
- Two days: NOK 11.200,- per attendant, incl. diploma
- Three days: NOK 12.200,- per attendant, incl. diploma and certificate
- More than three days on request

Minimum attendance to be agreed upon.

Training at the yard or at the shipowner's office:
Price per day for one instructor, training manuals/

materials included: NOK 11.500,-. Travel time invoiced NOK 10.800 per day. Travel, board and lodging for instructors will be charged at cost.

Onboard training: the stay on board will be 3 – 5 days and price per day, is NOK 11.500,-. Training manuals, condition report and oil analysis are free of charge. Travel, board and lodging will be charged at cost.

Maintenance course for your needs: Price on request.

Online Training Course: Two-day course (4 hours per day). NOK 8500,- per person

Offshore Training Course: Price on request.

Registration

Please do not hesitate to contact our training department for further details or registration:

Telephone: +47 55 99 92 00 / E-mail booking: trainingcourse@framo.no / www.framo.com/training

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