

NUSI Offshore Training Institute



**Unit of:
NUSI/ITF
Trust for
Indian
Seafarers**

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**Training Initiative by
National Union of
Seafarers of India
under 'NUSI SAKSHAM'**

**Hydraulic Driven
Submerged Pumps
Advanced (HSPA)**

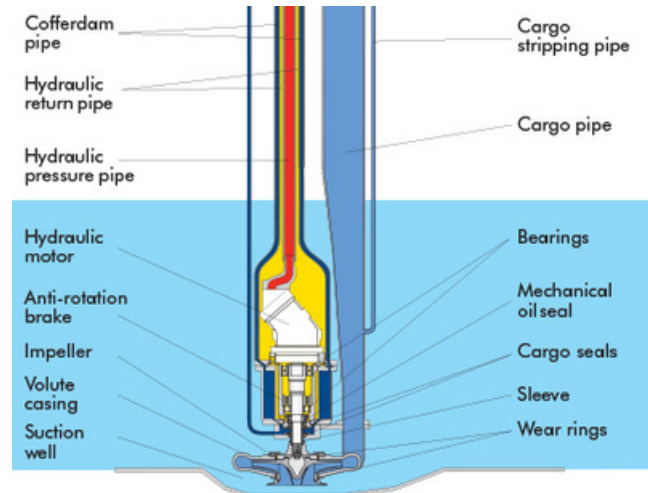
About Us

Quality Assured under DNV's MTP Standard!

Adopting a holistic approach to the process of skill development, professional faculty team is involved in designing, developing, and delivering courses for maximum effectiveness. Also included in the overall system are the administrative aspects which support quality education and training. All courses fall under the preview of Maritime Training Provider (MTP) standards of DNV.



Zero cost
To Unlicensed Seafarers



NUSI Offshore Training Institute developed as a state-of-art centre for Oil and Gas Offshore Training, expanded its scope with addition of impressive practical skill development facilities. Located in the outskirts of Mumbai, NOTI also provides residential facilities to candidates for the duration of the course.

Hydraulic Driven Submerged Pumps - Advanced (HSPA) (FRAMO) (03 Days) course contents...

- Basic concept of hydraulics & centrifugal pumps. Components of hydraulic systems & their representative symbols in circuit drawings.
- Speed control valves - Operation & troubleshooting.
- Advantages using submersible pumps on commercial tankers.
- Description of a typical hydraulic driven submersible pump system with all its components, their purpose & pump design including safety devices/emergency overrides.
- Cargo pump performance curves (HQ Curves)
- Various cargo operation using a hydraulic driven submerged pump system.
- Basic troubleshooting during operations, Purging routines and analysis of results.
- Use of portable pump in emergency and precautions.
- Practical demonstration of operation of a hydraulic driven submersible pump system during loading/discharging/stripping/purging, etc.
- Planned & Breakdown maintenance of FRAMO Pumps.

