



# 2022 New Training Initiatives for Seafarers

*Training Initiatives by*

**National Union of Seafarers of India**



### Post Pandemic New initiatives!

The Pandemic has been extremely challenging for the maritime industry, especially for the human resources personnel. As things seem to be slowly returning to normal, it is imperative that we work towards skilling the Indian seafarer to ensure his position in the global scenario is retained and gains further ground.

National Union of Seafarers of India is very pleased to introduce several new initiatives for enhancement of skills of Indian seafarers at their Centres of Skill Development and Online Programs with support of ISF Group, their long-term academic partners.

### NUSI's Centres for Skills Development:



**NUSI Offshore Training Institute:** developed as a state-of-the-art centre for Oil and Gas Offshore Training, expanded its scope with addition of impressive practical skill development facilities. Located in the picturesque outskirts of Mumbai, over an 8 acres campus, NOTI also provides residential facilities for candidates attending various programs. The newly developed Centre of Advanced Welding CAW is for conducting Welders Certification Programs at 3G and 6G levels.



**Mohamed Ebrahim Serang Centre:** With many seafarers hailing from Gujarat, NUSI took the initiative to acquire a complete building of 12000 sq. ft. in Valsad to set up a modern Skill Development Centre for deck and engine ratings.

### Quality Assured under DNV's MTP Standards!

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 purview of Maritime Training Provider (MTP) standards of DNV.

### A Charitable, Not for Profit Venture:

NUSI remains committed to the welfare of the seafarers it represents. While NUSI Saksham Scheme continues with courses available at Zero cost, the new initiatives will also be available at discounted rates. This subsidy on courses comes from the active support of NUSI-ITF Trust for Indian Seafarers, NMB Rehabilitation, and other related charitable, welfare institutions.



## Welding Certification Programs

A good welder is an asset onboard and can save valuable resources for the ship owners in terms of time and money. Level of proficiency in welding ranges from 1G to 6G, from simple plates which allow comfortable downward welding to pipes located in complex positions which cannot be removed and brought to workshop and hence need to be welded in their existing positions.



The Basic and Advanced Level Programs are designed to bring engineers, technicians, and fitters to levels of 3G and 6G respectively. The Program faculty will include experienced professionals with background of Classification Societies, specifically in WPS and WPQ, and seasoned welding instructors for SMAW (submerged metal arc welding).

**Welding Certification Programs at NUSI Offshore Training Institute (NOTI)** are offered with support of **ISF Group, NUSI's Academic Partners for NOTI and Mohamed Ebrahim Serang Centre (MESC)** at Valsad. **Lloyds Register, (LR) is the Certification Partner.** The program will be conducted at the brand-new facility developed at NOTI.





**Details of the programs:**

<b>Basic Welding Program</b>	<b>Advanced Welding Program</b>
Up to 3G Level.	Up to 6G Level.
6 days duration Fully Residential Program	12 days duration Fully Residential Program
<ol style="list-style-type: none"> <li>1. Theory 4 Hours (covering fundamentals and safety aspects) and Practical Sessions of 40 hours.</li> <li>2. Expert Faculty contributing to:               <ul style="list-style-type: none"> <li>➤ Theory lectures (physical presence or online live lecture).</li> <li>➤ Inspection of test pieces on the final day for both sessions.</li> <li>➤ Workshop instructors with proficiency up to 3G/6G Levels.</li> </ul> </li> </ol>	<ol style="list-style-type: none"> <li>1. Theory 4-6 hours (covering some fundamentals, specific pipe welding techniques, safety aspects) and Practical Sessions of 80+ hours.</li> <li>2. Expert Faculty contributing to:               <ul style="list-style-type: none"> <li>➤ Theory lectures (physical presence or online live lecture).</li> <li>➤ Inspection of progress at the end of first week.</li> <li>➤ Presence on the final day, welding test in presence of LR surveyor.</li> <li>➤ Workshop instructors with proficiency up to 3G/6G Levels.</li> </ul> </li> </ol>
Radiography of test pieces to assess weld quality Internal Certification by NOTI/ISF experts with extensive Classification Society experience.	Radiography of test pieces to assess weld quality External Certification by LR Inspector
<p>Entry Criteria/Standards: The candidate should meet at least one of the of following criteria:</p> <ul style="list-style-type: none"> <li>➤ Completion of LWST Program at NOTI, MESC or an equivalent welding training program at any other institute with acceptable grades.</li> <li>➤ Holding a certificate of welding proficiency at 1G or 2G levels from any shipyard or ship repair organization.</li> <li>➤ In case of a Motorman/Wiper - 3 years and good performance in welding jobs.</li> <li>➤ In case of a Fitter - 2 years and good performance in welding jobs.</li> </ul>	<p>Entry Criteria/Standards: The candidate should meet at least one of the of following criteria:</p> <ul style="list-style-type: none"> <li>➤ Completion of Basic Level Certification (3G) Program at NOTI or an equivalent welding training program at any other recognised institute with acceptable grades.</li> <li>➤ Suitable experience and passing an approved assessment program at NOTI, MESC or any other suitable testing centre.</li> </ul>
<p><b>Fee Structure:</b></p> <p>Basic Level Program for development of proficiency up to 3 G level is offered under the NUSI Saksham Scheme at zero cost.</p> <p>Candidates must meet the entry criteria for effectiveness of the training program and certificates will be awarded only on passing the final assessment.</p>	<p><b>Fee Structure:</b></p> <p>To offset some of the costs of this comprehensive advanced program, a deposit of INR 20,000/- is applicable on enrolment.</p> <p>Upon successful completion of the program meeting all the assessment criteria for certification, a refund of INR 10,000/- is applicable. Taxes as per GOI shall apply on the balance amount.</p>



### Bridging Courses for Offshore Ratings

Offshore vessels have a very different skill set requirements from personnel sailing on them and that is true across ranks to the ones sailing on the Main Fleet. There are many differences in the way Offshore vessels and Main Fleet vessel's function. The underlying principles of Safety, Navigation and Engineering maybe the same but the amount of machinery, cargoes carried (if at all carried on Offshore vessels) are starkly different.



The intent behind the introduction of these courses is with a view of not limiting the Offshore vessel ratings in their ability to transition to Main Fleet vessels and to assist such transition with as relative ease as can be achieved through training.

The National Union of Seafarers of India has a policy of keeping fingers on the pulse of what the industry views as a training need. As a direct response to the inputs received from Industry stalwarts, these courses are being introduced at NUSI Offshore Training Institute (NOTI) and are developed by



NUSI's Academic Partners ISF Group (ISF) for NOTI Panvel & MESC Valsad.

The courses are 5 day Fully Residential Courses for Deck and Engine Room Ratings with nearly 28 hours of contact time.

**Eligibility:** Offshore Ratings with a minimum experience of 2 years.

**Batch Size:** 10 for each course.




**Details of the programs:**

Deck Ratings	Engine Ratings
<b><u>Common Topics</u></b>	
<ul style="list-style-type: none"> <li>➤ Different Types of Main fleet vessels and their cargoes (and their associated hazards).</li> <li>➤ Emergencies (Specifically Cargo Related emergencies)</li> <li>➤ Emergency Actions (Drills &amp; Actions – specific to Main Fleet primarily resulting from hazards produced by cargoes)</li> <li>➤ LSA / FFA (Onload and Offload Release of Lifeboats [LB], Freefall LB, Securing Lifeboats, Life Rafts [weak links], Operating fire pumps, emergency generator, Importance of regular conduct of drills, etc.)</li> <li>➤ Mental Health and Importance of Mental Well-being. (incl. longer onboard stints, &amp; separation from families. Some aspects of Soft Skills to be also covered)</li> <li>➤ Power Tools and Safe Practices while handling Power Tools.</li> <li>➤ PTW's, Enclosed Space Entry (theory + Mock up Practical)</li> <li>➤ MLC (including CBA, grievance procedures, etc.)</li> <li>➤ MARPOL (Handling spills, SOPEP, SMPEP, Garbage Management etc)</li> </ul>	
<b>Department Specific Topics</b>	
<ol style="list-style-type: none"> <li>1. Tankers/Bulk Carriers/Containers (Cargo systems/Cargo loading-unloading / Hatch Cleaning/COW etc)</li> <li>2. Simulation Crane</li> <li>3. Basic Familiarization of Bridge Equipment (Assisting with lookout duties for OOW in traffic, ECDIS-related case study pertaining to lookout men).</li> <li>4. Case Studies &amp; New technical advances in the Maritime Sector.</li> <li>5. Steering Simulator</li> <li>6. Different Main fleet vessel layouts (Pilot, Combination ladders, Accommodation Ladders etc)</li> <li>7. Mooring &amp; Anchoring (Differences in layouts of the mooring stations &amp; Anchoring abilities as well as Mooring patterns at Terminals/Jetties, Types of moorings &amp; best practices, making fast tugs, use of messengers. tying up to buoys, checking anchor cables, marking of shackles, emptying chain lockers, etc.)</li> <li>8. Bridge Watchkeeping (Offshore Deck Ratings who are generally not exposed to Bridge WK)</li> <li>9. Introduction to what a Chain Register is, and inspection of Wires/Ropes &amp; Slings.</li> </ol>	<ol style="list-style-type: none"> <li>1. Boilers &amp; Incinerators &amp; Hot wells (Generally not found on Offshore Vessels)</li> <li>2. Ballast Water Treatment systems (Offshore vessels rarely make ocean voyages).</li> <li>3. IGG/IG and FW Gens. (Inert Gas Generators &amp; Flash Evaporators)</li> <li>4. Types of Propulsions incl. various fuels and brief idea on scrubbers etc (Include different types of Fuel...DFD, LNG, Electric etc)</li> <li>5. General inputs on Welding &amp; Repairs (including a walk-thru the workshop &amp; welding bays.</li> <li>6. HO Purifier (Theory + Practical) (offshore vessels typically work on MDO hence HO Purifier included)</li> <li>7. Simulator ER walk-thru</li> <li>8. Two/Four Stroke Engines Differences &amp; Pro's &amp; Con's.</li> <li>9. Case Studies &amp; New Technical Advances in the Maritime Sector</li> <li>10. Maintenance aspects of machinery (particularly cargo-related) on various types of vessels. Bilge handling &amp; OWS.</li> <li>11. Steering Systems [4-RAM, Vane] (Azimuth main propulsion vessels do not have standard steering systems) inclusive of Emergency Steering systems.</li> </ol>



### Maritime English Made Easy (MEME)

A Comprehensive self-paced online learning program in collaboration with  ISF Group

Proficiency in English Language at functional level is a must for smooth and efficient operations, safety and pollution prevention on board ships.

NUSI in collaboration with ISF Group is launching a comprehensive **online training program in Maritime English** which can be undertaken by a seafarer with limited understanding of the language and be completed at his own pace for grasping the essential skills.

#### Details of the programs:

##### Objectives

On completion of the program the learners will be able to:

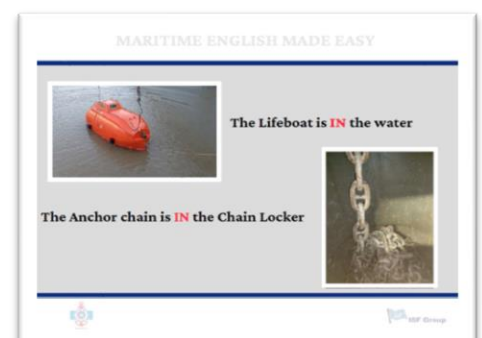
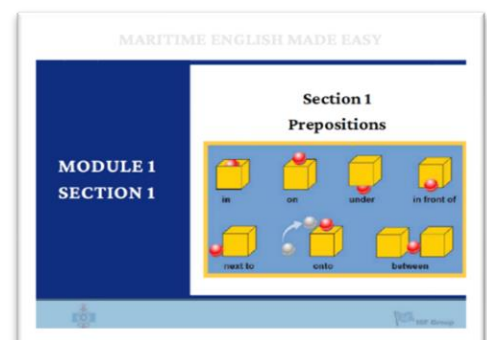
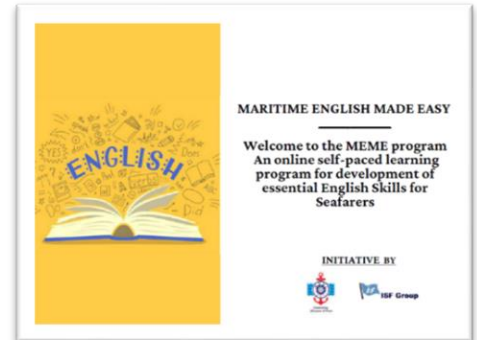
- Demonstrate improved proficiency in grammatical structures e.g., prepositions, tenses, sentence structures.
- Interpret and respond with appropriate choice of vocabulary in day-to-day shipboard work situations.
- Express themselves effectively with greater fluency and clearer pronunciation.

The comprehensive program includes 6 modules each of approximately 45 – 75 minutes duration for an average learner.

##### Aspects Covered include

1. Basic Grammar
2. Maritime Terminology
3. Reading
4. Listening
5. Phrasing
6. Pronunciation

The program teaches functional English skills within the shipboard context and situations which frequently occur on ship, and each module is a combination of: Audio – Instructor guiding the learner, Video – animated videos with characters in shipboard uniforms engaged in shipboard activities, short texts prompt, practice tasks and exercises, Quizzes to provide feedback if he/she is grasping the lesson well.





## Overview of Current Skill Development Courses

S.N.	Course Title	Course Details	Offered At
1	Pump man's Skill Enhancement Training	A comprehensive Course covering the entire spectrum of a Pump Man's role onboard tankers and associated skills, including the various workshop skills. ✓ 10 days/70 hours.	NUSI Offshore Training Institute (NOTI)
2	Deck Ratings Skills Training	A comprehensive Course covering the entire spectrum of a Deck Rating's role onboard ships and associated skills, including various deck skills, steering, crane operations, painting, carpentry, safety and environment protection, etc. ✓ 5.5 days/38 hours.	NUSI Offshore Training Institute (NOTI) and Mohamed Ebrahim Serang Centre (MESC)
3	Engine Ratings Skills Training	A comprehensive Course covering the entire spectrum of an Engine Rating's role onboard ships and associated skills, including the various engine room activities, safety, environment protection, workshop skills like welding and lathe operations. ✓ 5.5 days/38 hours.	NUSI Offshore Training Institute (NOTI) and Mohamed Ebrahim Serang Centre (MESC)
4	Lathe and Welding Skills Training	A focused practical program meant for enhancement of a Fitter's skills in welding, gas cutting, lathe operations, etc. ✓ 6 days/42 hours.	NUSI Offshore Training Institute (NOTI), Mohamed Ebrahim Serang Centre (MESC).
5	Ratings Skill Enhancement Program	A comprehensive program for upskilling a newly trained GP rating to make him ready for performance on board ships. ✓ 6 Weeks/42 days	NUSI Offshore Training Institute (NOTI)

*At NUSI, we constantly endeavour to provide Quality Training, that meet the industry needs. We can Customize Training courses to meet your specific needs!*

### **For Booking of Courses, please contact:**

- For NUSI Saksham Zero Cost Courses: [nusisaksham@outlook.com](mailto:nusisaksham@outlook.com)
- For Other Courses: [notibooking@isfgroup.in](mailto:notibooking@isfgroup.in) or visit [www.noti.nusiitf.in](http://www.noti.nusiitf.in)  
Tel 022 42951727

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