

Marine Stock Preservation & Storage Excellence: Practical Protection, Handling and Long-Term Care for Shipyard & MRO Operations

Introduction

Effective stock preservation is critical in marine, shipyard and MRO operations, where humidity, salt exposure, moisture, temperature changes and prolonged storage can quickly lead to corrosion, deterioration, contamination and costly equipment failure. Poor preservation may also result in unusable spare parts, maintenance delays, unnecessary replacement costs and reduced operational readiness. This two-day practical programme equips participants with the knowledge and techniques to preserve, package, store, handle, inspect and monitor materials correctly throughout the storage lifecycle. Using practical examples from marine and engineering environments, participants will learn how to identify preservation risks, apply suitable protection methods, manage long-term stored items and maintain the condition of critical spares. The programme is designed to strengthen preservation discipline, improve consistency in storage practices, reduce avoidable material losses and ensure that equipment and spare parts remain fit for use when required.

Training Objectives

1. Understand the principles and requirements of effective stock preservation in marine and engineering environments.
2. Apply appropriate preservation, packaging, storage and handling practices to minimise material deterioration and damage.
3. Conduct proper inspection, monitoring and long-term preservation of spare parts and sensitive materials.

Learning Outcomes

By the end of the programme, participants will be able to:

1. Explain the key principles of stock preservation in marine, shipyard and MRO environments.
2. Identify common causes of material deterioration, including corrosion, moisture, contamination and improper storage.
3. Apply suitable preservation, packaging, storage and handling methods for different types of materials and spare parts.
4. Conduct periodic inspection and monitoring to maintain the condition of stored and long-term preserved items.
5. Recommend practical corrective actions to improve stock preservation, reduce avoidable losses and ensure materials remain fit for operational use.

Training Methodology

Trainer presentation, marine and engineering examples, group discussion, practical exercises, case studies and preservation checklist activities.

Target Participants

Staff involved in material handling, storage, maintenance, engineering, MRO, warehousing and related activities, as well as personnel who require general knowledge of stock preservation.

Course Outline

Day 1	
Time	Module
9.00 - 10.30 am	Module 1: Fundamentals of Stock Preservation Purpose of preservation; causes of deterioration; corrosion, moisture, humidity, salt exposure and marine environmental risks.
10.30 am - 1.00 pm	Module 2: Material Classification & Preservation Requirements Mechanical parts, electrical items, bearings, valves, pumps, seals, rubber materials, chemicals and sensitive components.
2.00 - 3.30 pm	Module 3: Preservation, Packaging & Protection Methods Cleaning, corrosion protection, protective coatings, VCI, desiccants, wrapping, sealing, packaging and labelling
3.30 - 5.00 pm	Module 4: Proper Storage & Handling Practices Warehouse conditions, storage arrangement, humidity control, stacking, handling, lifting and prevention of preservation damage.
Day 2	
9.00 - 10.30 am	Module 5: Inspection & Preservation Monitoring Periodic inspection, corrosion checks, packaging condition, moisture monitoring, shelf-life control and inspection frequency.
10.30 am - 1.00 pm	Module 6: Preservation of Spare Parts & Sensitive Materials

	Mechanical spares, electrical equipment, electronic items, bearings, seals, gaskets, batteries and precision components.
2.00 - 3.30 pm	Module 7: Long-Term Storage & Critical Stock Preservation Long-term storage requirements, re-preservation, critical spares, environmental conditions and preservation scheduling.
3.30 - 5.00 pm	Module 8: Marine Case Study & Practical Application Marine and shipyard preservation cases, identification of preservation failures, corrective actions and development of a practical preservation checklist.
END OF PROGRAM	

Recommended Participants

Maximum 20-25 participants per session to ensure effective discussion and practical participation.