

(LOTO)

OPERATIONAL TEST Test a system or equipment in accordance with a pre-planned and agreed procedure throughout the working range under operational conditions. Record results in a log and test form, provide certification, supply and fit tallies as required.

OVERHAUL Unless otherwise specified in the appropriate work package OVERHAUL is to include the following:

- Isolation
- Removal (e.g. to a remote workshop)
- Cleansing
- Dismantle
- Inspecting - Electrical and Mechanical aspects - Disassemble into components/sub-assemblies, measure fits and clearances where appropriate. Examine visually and by Non- Destructive Testing (NDT) where necessary for cracks/mechanical defects. Inspect wearing surfaces.

On conclusion of inspection a written report is to be produced and copied to the Authority Authorised representative with any defects/concerns highlighted. The report is to include recommendations for any corrective action and implications re cost and timescale of actions.

Renewal of consumable parts

- Assembly
- Flushing, adjusting, testing and calibration
- Re-preservation
- Installation
- Reconnection
- Setting to work and operational testing

PRESSURE TEST Test a system or equipment to a specific pressure in accordance with recognised procedure. Provide certification, register in shipboard documentation, supply and fit tallies as required.

PRESERVE For the duration of the refit. Protect inactive systems/equipment or spaces against degradation or damage during upkeep periods. Include costs to isolate, drain, cover and maintain in clean condition.

REFURBISH To examine for damage and cosmetic appearance. To make good specified defects and improve appearance to the general standard of the compartment in which the item is sited. REFURBISHment is to return the item to an acceptable standard without major RENEWal or material exchange. Any items considered beyond REFURBISHment are to be reported. REFURBISHment is not to be applied to machinery.

REMOVE To ISOLATE and detach an item from its fitted position, separating it at any specified terminal points. To protect the item, associated systems and remaining components from mechanical and environmental damage. To transport the item to the workstation or store, or to dispose of the item as instructed by the Authority's Authorised Representative.

RENEW Remove an item or equipment and install a replacement one as specified in the work list.

RENEW COATINGS	To remove existing coatings back to bare and apply full paint system. Both activities to be carried out in accordance with the Refit Period Specification (This definition applies where 100% of an area is to be treated).
REPORT	Provide a written report in a format specified by the work list or in accordance with associated documentation.
REPRESERVE COATINGS	Prepare damaged/corroded surfaces, apply coatings to bare material, overcoat existing coatings where specified in accordance with the Refit Paint Specification. (This definition applies where only a percentage of an area is to be treated with the Full Paint Scheme).
SERVICE	<p>A planned maintenance function aimed at serviceable equipment to preserve and restore normal levels of functionality, usually following a manufacturer's recommended process.</p> <p>Includes a comprehensive functional test in all modes and configurations; removal and replacement of inspection covers; basic level visual examination, inspection and fault finding; testing of safety devices, controls and interlocks; cleaning, removing arising from the equipment enclosures and lubrication as required; changing life expire consumables (e.g. oil, filters, seals, desiccants, etc); calibrating inputs and checking/adjusting outputs; setting to work and presenting to Inspecting Officer.</p> <p>The manufacture's recommended service schedule is to be adhered to where this can be obtained. Good engineering practice based on the above principles will substitute where it cannot. Manufacturer's recommended spares are to be included in the cost and are to be fitted when such a list can be obtained. The Vessel Repairer is to carry out services fully in accordance with manufacturer's recommendations and will be required to justify any chosen course which differs in scope or extent of supply.</p>
SET TO WORK (STW)	Bring equipment or system to operational standards in accordance with specifications. This process includes functional testing, adjusting, calibration and operational testing. All is to be carried out to an agreed pre-planned written procedure.
SURVEY	Outwith the requirements of Class, which is normally stated separately, the survey of equipment or systems is to include the following: cleaning, inspection, production of reports, determining the condition of structures, etc. A process to be carried out by a competent person to include cleaning, inspection, adjustment and functional testing of an equipment/system or structure according to accepted standards or procedures as appropriate.
UPKEEP BY EXCHANGE (UxE)	The removal and installation of replacement MOD supplied equipment. Disposal instructions and packing requirements will be advised.
WORK IN WAY	Work required for preparing, accessing and maintaining acceptable conditions to allow the completion of specified work. Rectification of any damage caused during this evolution is included here (e.g. Remove and re-install desktop in way of power supply type 12345).
WORK IN WAKE	Work required to restore normal access, working conditions and standards of preservation and finish following specified work. To include cleaning and removal of arising, dismantling and removing access equipment, de-isolation, replacing guards and floor plates and touching up paintwork including the restoration of signs and notices. Affix new test tallies and labels.

3 Transfer and Berthing of Vessel

3.1 Transfer of Vessel

- 3.1.1 The Vessel will be formally handed over to the Contractor by the MOD following completion of the Handover Form at the permanent mooring position within PORTLAND harbour. On receipt of the Vessel the Contractor will be required to move the Vessel to an alongside harbour location for the duration of the Refit (The Contractor will be required to conduct a Wind Ship evolution partway through the Refit period to allow ship side re-preservation work to be conducted).
- 3.1.2 When it has been agreed that all the contracted work has been completed, i.e. at the pre-CAD meeting the Contractor is required to transfer the Vessel back to MOD custody. This will require the Vessel to be towed back to the permanent mooring position within PORTLAND harbour.
- 3.1.2 The Contractor will be required to supply all the towing arrangements and obtain the appropriate documentation to allow the Vessel to be towed.

3.2 Berthing Services

The contractor is required to supply all equipment, storage, transportation and services needed to complete the specified work. This includes, but is not limited to the following:

Safe and reliable gangway is to be provided during the whole period the Vessel is undergoing upkeep. No pipes or cables are to be fixed to the gangway.

- Include for transportation of all machinery parts and deck items to their repair locations and return of same where required.
- Include all transportation charges for work sub-contracted outside the repair yard.
- Engine skylights, tank lids, hatches, together with gangways and ladders to remove for access and replace in good order.
- Suitable storage ashore to be supplied for stowage of stores, upper deck equipment, etc, from spaces wherein work is to be carried out. Use of a lock-up lay-apart store to be provided.
- Craneage to be provided for all repairs, storing, de-storing spare gear loading and off-loading and movement of spare gear for all compartments.
- Shore power is to be provided for the Vessel Repairer's heating lamps, temporary lights and running of the Vessel Repairer's auxiliary equipment.
- Temporary lights are to be rigged and maintained for access and repairs at all places required.
- Adequate ventilation is to be provided prior to working in any enclosed spaces.
- Fire equipment, hoses, extinguishers, foam and nozzles are to be provided by the Vessel Repairer for firefighting purposes.
- The Vessel Repairer is to provide suitable fire detection and alarm system whilst the Vessel is in their custody.
- Wherever the contract calls for hot work or work in enclosed spaces the Contractor is to include costs for gas freeing, ventilation and cleaning to the appropriate standard. The Vessel Repairer is to include costs for entry/hot work certification throughout the period the work takes to complete.
- Keyboard to be manned by Shore Joiner or authorised equivalent (one shift only as required to suit Shipyard working) and keys are only to be released on signature, keys to be replaced on hooks in correct manner at end of refit