



HMS Nyköping doing test runs outside Karlskrona. (Photo: Kockums AB)



## Test and Evaluation - Marine Products

### General

Test and Evaluation is a result-orientated department within the Swedish National Defence Materiel Administration (short in Swedish FMV). The operational area "Test and Evaluating Naval Systems" (T & E Naval Systems) is based in Karlskrona.

The main principal of FMV is the Swedish armed forces.

### History

Marine operations were initiated in Karlskrona when the naval base and shipyard were established around 1670–1680.

HMS Visby, which was launched in 2000, was new building number 454. This validation and verification has thus been carried out for a long period of time. It is now carried out by T & E Naval Systems under the direction of FMV.

### T & E S:

- Converts client requirements to verification and validation (in Swedish abbreviated as VoV) plans and evaluation specifications
- Plans, administers, implements and reports verification and validation
- Co-operates with the rest of FMV, the armed forces, other national authorities, Swedish companies and international clients
- Possesses qualified competence concerning marine technology systems
- Is oriented with regard to applicable laws, regulations, requirements and other rules with regard to the marine technology systems
- Is to be involved early in FMV projects, in order to contribute with experience and technological competence, and should take part when deciding on the requirements to be included in specifications

Procedure

The process below describes how most of the marine materiel procurements, and sub-processes, in which T & E Naval Systems carries out VoV, work.

PROJECT PLANNING Validation against TTEO			PRODUCTION Verification against specification			DELIVERY Validation against TTEO	
VALIDATION ACTIVITY			VERIFICATION ACTIVITY				
STUDIES, TESTS & TRIALS	PRE-PLANNING FASE	SPECIFICATION AND PURCHASING FASE	CONSTRUCTION PHASE	PRODUCTION FPHASE FAT	HAT & SAT	GUARANTEE PHASE	DELIVERY
						SYSTEM TEST PHASE Analysis Review Testing Simulation	

PRESENT/COMING T&E Sjö projects

- New building, corvette type Visby, 5 of
- Half-time modification, minehunter type Landsort, 5 of.
- New building, training ship
- Modification of corvettes
- Integration of helicopter and command support, corvette type Visby
- Modification of submarines
- New building, combat support ship

The activities of T&E Sjö is thus conducted throughout the materiel procurement process both as support in, and direct activities in, sub-processes.



Interior from one of the positions inside CIC of a corvette. (Photo: FMV)



**FMV**  
 Swedish Defence Materiel  
 Administration  
 SE-115 88 Stockholm, Sweden  
 Visiting address: Banérgatan 62  
 Tel. +46 8 782 40 00  
 Fax +46 8 667 57 99  
 registrar@fmv.se  
 www.fmv.se

**FMV**  
 FMV develops the equipment of the future for the total defence organisation and other customers. This is where the visions for new technical solutions are born. We combine high system and defence expertise with commercial and international expertise. With professional project management, we handle complex projects and collaborate with industry, civil authorities and the total defence organisation. We focus on a businesslike approach in our work. All with the aim of strengthening Sweden's total defence capability with advanced and cost-effective equipment.