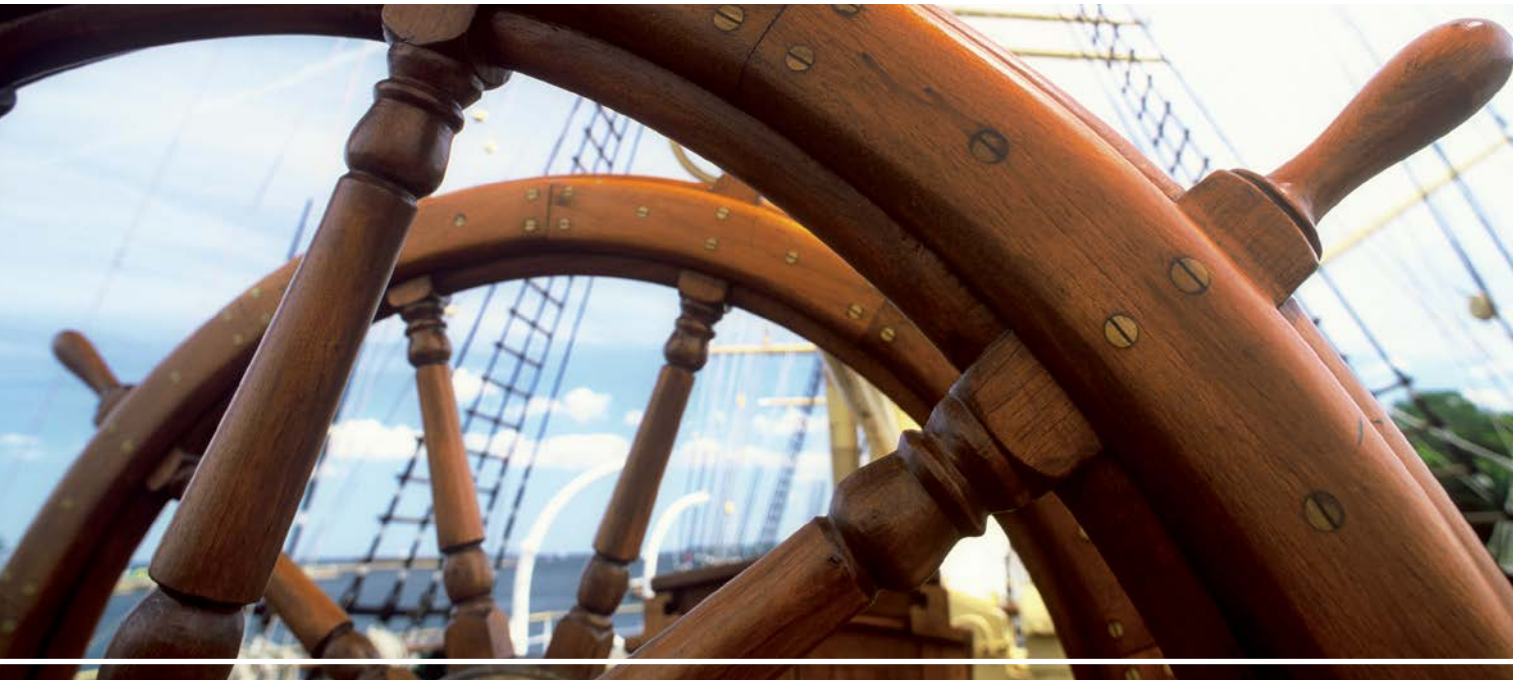

MARITIME

MARINE EQUIPMENT DIRECTIVE (MED)

The efficient route to "wheelmark" conformity

Approved equipment for EU ships is a must
If you want to have your equipment installed on ships of EU Member States or other countries that demand MED conformity, you need the MED Mark of Conformity ("wheelmark").

To obtain this "wheelmark", you have to pass a conformity assessment, according to the Marine Equipment Directive 96/98/EC (MED) as last amended, performed by a Notified Body such as DNV GL. If you choose DNV GL, you can be sure of excellent service and an efficient assessment procedure.

Benefit from the best solution for you
The purpose of the MED is to ensure the free movement of marine equipment within the EU and to guarantee the uniform application of the international SOLAS, MARPOL and COLREG conventions. A manufacturer only has to gain approval for a certain type of equipment from one single Notified Body.

DNV GL is one of the few Notified Bodies who covers the full scope of the MED. DNV GL provides recognised MED certification for:

- Life-saving appliances (SOLAS Ch. III)
- Marine pollution prevention equipment (MARPOL)
- Fire protection equipment (SOLAS Ch. II-2)
- Navigation equipment (SOLAS Ch. V)
- Radio-communication equipment (SOLAS Ch. IV)
- Navigation lights (COLREG 72)
- Water level detectors (SOLAS Ch.II-1

In accordance with the relevant product, you will find listed in Annex A.1 of the Directive:

- Equipment that falls under the MED
- Design standards for the equipment (IMO)
- Test standards for the equipment
- Procedures (modules) which can be chosen for the
- conformity assessment according to the MED

You can download all the necessary documents required for your wheelmark from www.dnvgl.com/med

Your best partner
The experts who provide MED approval at DNV GL come with firstclass maritime expertise and many years of experience in all relevant fields. In addition, you can be sure of fast response times and excellent customer service. At DNV GL, we provide you with all the assistance you need in achieving MED conformity. This starts with advice on the assessment procedures (modules) which you choose:

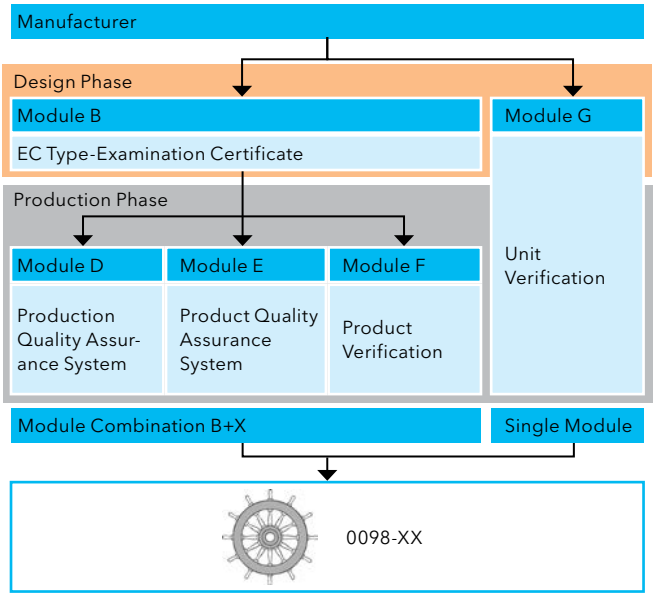

Fig. 1: MED modules

The module you select depends on the type of product, quantity, the nature of the risk involved, etc.

Module B (Type Examination)
Examination and attest that equipment complies with the international standards as described in Annex A.1 of the MED. Approval is valid for five years. The testing is either to be done in the presence of DNV GL or to be conducted by a recognised laboratory holding valid accreditation for the relevant tests.

Module D (Production Quality Assurance)
Assessment of your quality assurance system for production, final inspection and testing by DNV GL. Approval is valid for five years. This module is normally used by manufacturers operating an approved ISO 9001 quality system.

Module E (Product Quality Assurance)
Assessment of your quality assurance system for final inspection and testing by DNV GL. Approval is valid for five years.

Module F (Product Verification)
Verification by individual examination and testing of products, or statistical verification of homogeneous lots or batches, to ensure conformity with the type as described in the Module B certificate.

Module G (Unit Verification)
Examination and testing of a single unit in order to check that the product complies with the Directive (used for equipment produced in small quantities). The unit verification consists of two elements:

- Assessment of technical documentation
- Examination and testing of the equipment concerned

Hassle-free MED Approval with DNV GL
The MED approval process at DNV GL starts with the very first contact: via e-mail, phone, or by sending your completed MED application form, which can be downloaded at www.dnvgl.com/med

Once you have provided us with copies of all test reports (if performed before application), manufacturing plans and supporting documentation for the product together with the completed application form, we will appraise the documents for compliance with the relevant regulations and test standards. Required tests that have not yet been carried out, will be performed in the presence of DNV GL or can be conducted by a recognised laboratory. Compliance with Module D or E will be assessed during a quality audit at your production site. After completion of the assessment process, we will issue your MED certificate.

Benefits that make all the difference
- Free movement of your products in the EU and other countries thanks to the Mark of Conformity and worldwide recognition of DNV GL by most flag states
- Cost reductions in manufacturing through MED compliance, since multinational versions of marine equipment are no longer needed
- Assignment of USCG Approval Numbers for some of the products with no need for additional testing or certification to the Mutual Recognition Agreement (MRA) between the USA and the EU
- Listing of your MED approvals in the DNV GL Approval Finder and MarED Product Database – an important prerequisite for generating new business in new markets
- DNV GL covers the full scope of MED, so we can provide you with optimal full service

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