

This edition of GL rules & guidelines is the latest and current edition. Previous editions of GL rules & guidelines, as well as all DNV GL rules and supporting documents, are available from <https://www.dnvgl.com/rules-standards>.



## Rules & Guidelines

### July 2016

## I - Ship Technology

### Part 0 - Classification and Surveys

	Code	Edition
Classification and Surveys	I-0	2016-07
Classification and Surveys	I-0	2016-01

### Part 1 - Seagoing Ships

	Code	Edition
Chapter 1 - Hull Structures	I-1-1	2016-07
Chapter 1 - Hull Structures	I-1-1	2016-01
Chapter 2 - Machinery Installations	I-1-2	2016-07
Chapter 2 - Machinery Installations	I-1-2	2016-01
Chapter 3 - Electrical Installations	I-1-3	2016-07
Chapter 3 - Electrical Installations	I-1-3	2015-07
Chapter 4 - Automation	I-1-4	2013
Chapter 5 - Structural Rules for Container Ships	I-1-5	2016-07
Chapter 5 - Structural Rules for Container Ships	I-1-5	2016-01
Chapter 5a - Supplementary Rules for Application of Steel with Yield Strength of 460 N/mm <sup>2</sup> as well as Extremely Thick Steel Plates of Different Yield Strength	I-1-5a	2016-01
Chapter 6 - Liquefied Gas Carriers	I-1-6	2016-01
Chapter 7 - Chemical Tankers	I-1-7	2014
Chapter 8 - Fishing Vessels	I-1-8	2007
Chapter 9 - Oil Recovery Vessels	I-1-9	1993
Chapter 10 - Refrigerating Installations	I-1-10	2000
Chapter 11 - Bridge Arrangement and Equipment on Seagoing Ships	I-1-11	2012
Chapter 12 - Chemical Recovery Vessels	I-1-12	2005
Chapter 14 - Redundant Propulsion and Steering Systems	I-1-14	2000
Chapter 15 - Dynamic Positioning Systems	I-1-15	2013
Chapter 16 - Harmony Class – Rules on Rating Noise and Vibration for Comfort, Cruise Ships ( $v \leq 25$ kn)	I-1-16	2003
Chapter 17 - Guidelines for Machinery Condition Monitoring	I-1-17	2008
Chapter 18 - Harmony Class – Rules on Rating Noise and Vibration for Comfort, Cruise Ships ( $v > 25$ kn)	I-1-18	2004
Chapter 19 - Guidelines for the Carriage of Refrigerated Containers on Board Ships	I-1-19	2003
Chapter 21 - Ventilation	I-1-21	2016-07
Chapter 21 - Ventilation	I-1-21	2014
Chapter 22 - Guidelines for the Construction of Polar Class Ships	I-1-22	2008
Chapter 23 - Harmony Class - Rules on Rating Noise and Vibration for Comfort, Cargo Ships	I-1-23	2009

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Chapter 24 - Guidelines for Compliance with MLC 2006 Noise and Vibration Requirements	I-1-24	2013
<b>Part 3 - Special Craft</b>		
Chapter 3 - Yachts and Boats up to 24 m	I-3-3	2003
<b>Part 6 - Offshore Service Vessels</b>		
Chapter 1 - Hull Structures	I-6-1	2012
Chapter 2 - Machinery and Systems	I-6-2	2011

## II - Materials and Welding

### Part 1 - Metallic Materials

Chapter 1 - Principles and Test Procedures	II-1-1	2009
Chapter 2 - Steel and Iron Materials	II-1-2	2009
Rule Change Notice Chapter 2, Section 1	1 December	2011
Chapter 3 - Non-Ferrous Metals	II-1-3	2009
Chapter 4 - Equipment	II-1-4	2009
Chapter 5 - Materials for Propeller Fabrication	II-1-5	2009
Chapter 6 - Special Materials for Naval Ships	II-1-6	2003

### Part 2 - Non-metallic Materials

Chapter 1 - Fibre Reinforced Plastics and Bonding	II-2-1	2006
Chapter 2 - Wooden Materials	II-2-2	2006
Chapter 3 - Guidelines for Elastomeric Adhesives and Adhesive Joints	II-2-3	2002

### Part 3 - Welding

Chapter 1 - General Requirements, Proof of Qualifications, Approvals	II-3-1	2000
Chapter 2 - Design, Fabrication and Inspection of Welded Joints	II-3-2	2000
Chapter 3 - Welding in the Various Fields of Application	II-3-3	2000
Rule Change Notice Chapter 3, Section 1, F.	March 2008, amended 2013	

## IV - Industrial Services

### Part 6 - Offshore Technology

Chapter 1 - Classification, Certification and Surveys	IV-6-1	2007
Chapter 2 - Mobile Offshore Units	IV-6-2	2007
Addendum 1 for Chapter 2, Section 8		2012
Chapter 3 - Fixed Offshore Installations	IV-6-3	2007
Chapter 4 - Structural Design	IV-6-4	2007
Chapter 5 - Machinery Installations	IV-6-5	2007

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Chapter 6 - Electrical Installations	IV-6-6	2007
Chapter 7 - Guideline for the Construction of Fixed Offshore Installations in Ice Infested Waters	IV-6-7	2005
Chapter 9 - Guideline for Personnel Transfers by Means of Lifting Appliances	IV-6-9	2011
<b>Part 11 - Machinery and Civil Engineering Works</b>		
Chapter 1 - Ship Lifts and Ro-Ro Ferry Ramps	IV-11-1	2010

## V - Analysis Techniques

### Part 1 - Hull Structural Design Analyses

Chapter 1 - Guidelines for Global Strength Analysis of Container Ships	V-1-1	2011
Chapter 2 - Guidelines for Fatigue Strength Analyses of Ship Structures	V-1-2	2004
Chapter 4 - Guidelines for Global Strength Analysis of Multipurpose Vessels	V-1-4	2013

## VI - Additional Rules and Guidelines

### Part 1 - Container Technology

Chapter 1 - Guidelines for the Construction, Repair and Testing of Freight Containers	VI-1-1	1995
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### Part 3 - Machinery Installations

Chapter 1 - Guidelines for the Use of Gas as Fuel for Ships	VI-3-1	2010
Chapter 4 - Guidelines for Equipment on Fire Fighting Ships	VI-3-4	2008
Chapter 5 - Guidelines for Design, Equipment and Testing of Gas Welding Installations on Seagoing Ships	VI-3-5	2008
Chapter 6 - Guidelines for the Construction, Equipment and Testing of Closed Fuel Oil Overflow Systems	VI-3-6	2008
Chapter 7 - Guidelines for the Design, Construction and Testing of Pumps	VI-3-7	2013
Chapter 11 - Guidelines for the Use of Fuel Cell Systems on Board of Ships and Boats	VI-3-11	2003

### Part 4 - Diesel Engines

Chapter 1 - Guidelines for Mass Produced Engines	VI-4-1	1987
Chapter 2 - Calculation of Crankshafts for Internal Combustion Engines	VI-4-2	2012

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Chapter 3 - Guidelines for the Seating of Propulsion Plants and Auxiliary Machinery	VI-4-3	2010
<b>Part 6 - Modular Certification System</b>		
Chapter 2 - Guidelines for the Inspection of Mechanical and Electrotechnical Products	VI-6-2	2009
<b>Part 7 - Guidelines for the Performance of Type Approvals</b>		
Chapter 5 - Test Requirements for Complex Data Networks	VI-7-5	2014
Chapter 8 - Test Requirements for Components and Systems of Mechanical Engineering and Offshore Technology	VI-7-8	2016-07
Chapter 8 - Test Requirements for Components and Systems of Mechanical Engineering and Offshore Technology	VI-7-8	2016-01
<b>Part 8 - Electrical Engineering</b>		
Chapter 5 - Guidelines for the Restoration of Electrical Systems following Damage caused by Fire, Water and Extinguishing Agents	VI-8-5	1998
<b>Part 9 - Materials and Welding</b>		
Chapter 2 - Guidelines for the Fabrication and Inspection of Welded Pipelines of Copper-Nickel-Alloys	VI-9-2	2007
Chapter 5 - Guidelines for the Approval of Reaction Plastics and Composite Materials for the Seating and Repair of Components	VI-9-5	2006
<b>Part 10 - Corrosion Protection</b>		
Chapter 1 - Coating of Ballast Water Tanks	VI-10-1	2010
Chapter 2 - Guidelines for Corrosion Protection and Coating Systems	VI-10-2	2010
Chapter 3 - Corrosion Protection of Crude Oil Cargo Tanks	VI-10-3	2013
<b>Part 11 - Other Operations and Systems</b>		
Chapter 3 - Guidelines for Sea Trials of Motor Vessels	VI-11-3	2012
Chapter 4 - Chamber Systems for Tunnelling	VI-11-4	2011
Chapter 5 - Guidelines for Extended Dry-Dock Interval	VI-11-5	2013
Chapter 6 - Guidelines for the Preparation of Damage Stability Calculations and Damage Control Documentation on Board	VI-11-6	2008
Chapter 7 - Guidelines for Loading Computer Systems	VI-11-7	2013
Chapter 8 - Guidelines and Approval Procedure for "In Service Inclining Test Systems" (ISITS)	VI-11-8	2000

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Chapter 9 - Guidelines for the Condition Assessment Program	VI-11-9	2010
Chapter 10 - Guidelines on Ballast Water Management	VI-11-10	2016-07
Chapter 10 - Guidelines on Ballast Water Management	VI-11-10	2013
Chapter 11 - Guidelines for the Preparation of Operating and Maintenance Manuals for Shell Doors	VI-11-11	2005
<b>Part 12 - Environment Protection</b>		
Chapter 1 - Guidelines for the Environmental Service System	VI-12-1	2012
Chapter 2 - Ship Recycling Related Certification Processes	VI-12-2	2016-01
<b>Part 13 - Energy Efficiency</b>		
Chapter 1 - Guidelines for Determination of the Energy Efficiency Design Index	VI-13-1	2013

## **EU RO - Recognised Organisations**

For EU RO Mutual Recognition – Procedures and Technical Requirements, see DNVGL-CP-0338, Sec.7