

What does this mean for me?

Design, Construction and Equipment Rules Reform

Fire Protection
Machinery
Life-saving Appliances
Anchors and Cables

August 2024



This document is part of a series of documents to support consultation on changes to the Design, Construction and Equipment Maritime Rules (the DCE rules). Other documents that form part of the consultation package include:

- *Invitation to Comment* - An overview of the consultation package and summary of the proposals, including information on how to have your say on the proposals.
- *Proposal summaries* - Details of the proposed changes for each of the four Rule topics being consulted on: Life-saving Appliances, Fire Protection, Machinery and Ancillary Equipment, and Anchors and Cables.
- *Draft Maritime Rules and draft Maritime Transport Instruments (MTIs)* – a set of rules and MTIs for each of the four Rule topics.
- A template to support preparation of your submission.
- A blank template to compare your vessel against proposed requirements.

Supporting material is available in the following document:

- *Interim Regulatory Impact Analysis*.

These documents, and other supporting information, can be accessed at <https://www.maritimenz.govt.nz/public/consultation/dce-40-series-package-1/>

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Note: The word 'ship' is used in the Maritime Transport Act 1994 and the proposed rules and MTIs. This term is used to refer to any kind of boat or craft and does not refer to a craft of a specific size. For the avoidance of doubt, the terms vessel, ship and boat can be used interchangeably. This document uses the term 'vessel'.

Purpose

Maritime New Zealand - Nō te rere moana Aotearoa (Maritime NZ) is proposing significant reform of the Maritime Rules for design, construction and equipment (the DCE rules). These rules are also known as the 40-Series Rules. Package 1 of the reform covers the rules for Life-Saving Appliances, Fire Protection, Machinery, and Anchors and Cables.

This document provides 14 examples showing how the changes proposed in Package 1 could impact vessels that we consider reflect the majority of the New Zealand domestic commercial fleet. You can use the examples as a guide as to how the changes might affect your vessel. The examples should be read in combination with the *Invitation to comment*, *Proposal summaries* and other information about the reform of the DCE rules, which is available on Maritime NZ's website at <https://www.maritimenz.govt.nz/public/consultation/dce-40-series-package-1/>.

About the Tables used in each example

Each example uses a Table to summarise the proposed rule changes that could impact a vessel like the one in the example. The headings in green list the Rule Part and Maritime Transport Instrument (MTI) that contain the proposed requirements.

Only proposed changes to rules are shown. Most current rules will 'carry over' into the proposed new rules. These may have minor wording changes - which will not have an impact on vessels in the fleet.

Note that the Tables are intended to illustrate the proposed rule changes and serve as a reference only. Please use the Rule / MTI references listed in the right-hand column to look up the draft Rule Parts and MTIs for a comprehensive set of requirements and how they will apply to a particular vessel.

Explaining some terms used in the examples

High risk factors. These are used in the Life-saving Appliances MTI. Clause 7.5(8) sets out four conditions that are considered to be high risk. If any one of these conditions are present, then surveyor would not be able to determine that a liferaft is not required. The factors are:

- Operating the vessel during the hours of darkness
- Operating the vessel south of 44 degrees south latitude
- Operating the vessel in the months during which the mean average water temperature is under 15 degrees centigrade
- Carrying more than 38 persons on board.

Inshore limits (a) and inshore limits (b). These terms refer to the inshore operating limits described by Maritime Rules Part 20 (refer definition below). The Inshore limits (a) are set out in Part 2 of Appendix 1 of Part 20. Inshore limits (b) are assigned by a surveyor (see below). References to "inshore limits" means both inshore limits (a) and inshore limits (b).

inshore limits means —

(a) the inshore limits set out in Part 2 of Appendix 1; and

(b) in relation to a ship, any defined section of the coastal limits not beyond the limit of the territorial sea of New Zealand (which has been assigned to that ship as an inshore limit by a surveyor under rule 20.20(1)), subject to rule 20.20(4):

MTI is short for Maritime Transport Instrument. The proposed rules set out what is required for a given topic. MTIs contain more detail – i.e. 'how' the rule is to be complied with.

Operating limits

Operating limits are used to determine when some requirements will apply - particularly for the Life-saving Appliances and Fire Protection rules. Appendix 1 provides diagrams showing the operating limits in Maritime Rules Part 20. The 'restricted limits' shown in diagram 1 corresponds to inshore limits (a).

Example 1: 23m fishing vessel, offshore limits

Vessel Details

Operating area:	Offshore limits, south of 48 degrees South latitude
Vessel type	Fishing
Length overall:	22.8m
POB:	Min 3 Crew Max 12 persons on board 12 Berths 0 passengers
Construction:	Steel
Hull design:	Monohull trawler
Propulsion:	Inboard Diesel
Engine rating:	745 kW



Fire Protection – Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>High fire risk</u> because: <ul style="list-style-type: none"> It is more than 15m in length and less than 24m; and Operates in the offshore limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel is existing and does not meet the threshold at which structural fire protection requirements will apply.	Structural fire protection rules will apply to: <ul style="list-style-type: none"> A <u>new</u> High fire risk vessel of 15m or more and less than 24m; and A new or existing High fire risk vessel of 24m or more. 	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a High fire risk vessel.	<ul style="list-style-type: none"> This vessel will require a hard wired fire detection and alarm system. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2 Schedule 1(1)
Fixed fire-extinguishing system in the propulsion machinery space	Yes	Vessel will be classed as a High fire risk vessel.	<ul style="list-style-type: none"> The propulsion machinery space will need to be gastight. An existing vessel will have 2 years to meet this requirement. 	Rule C8.2 Schedule 1(1)

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Fire pumps, fire hydrants, fire hoses,	Yes	Vessel is classed as a High fire risk vessel and is 15m or more and less than 24m.	<ul style="list-style-type: none"> 1 main fire pump and 1 water jet will be required. 1 emergency fire pump will be required if the main fire pump is located in the main machinery space. (This is a change from the current rules). Requirements for hoses, hydrants etc. will be much the same as the current rules. 	MTI 12.1 and 12.3
Life-saving Appliances - Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes	Will be required for all vessels operating in the offshore limit.	<ul style="list-style-type: none"> Enough liferafts will be required to carry all persons on board. No change for this vessel. 	Rule C7.2 MTI 7.2
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	<ul style="list-style-type: none"> Life jackets will need to be 150 Newtons. (The current rules require 100 Newtons). An existing vessel will have 2 years to meet this requirement. 	Rule C5.1 MTI 5.2 Schedule 1(3)
Rescue boat	No	Vessel does not meet the proposed threshold.	No change for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 9m or more operating beyond inshore limits.	<p>Will require 4 lifebuoys. (This is an increase of 2 over the current rules).</p> <p>The surveyor may require additional lifebuoys if:</p> <ul style="list-style-type: none"> The number of decks, or the length of the vessel, means no lifebuoys are accessible within 15m on an exposed deck; <u>or</u> A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Will be required for all vessels operating in the offshore limit.	6 rocket parachute and 2 buoyant smoke signals. (No change for this vessel).	MTI 2.2
Machinery – Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)

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Remote manual engine shut down (or kill switch)	Yes	Will apply to all inboard engines.	<ul style="list-style-type: none"> Will only apply if engine is not readily accessible. Existing vessels will have 5 years to meet this requirement. 	Rule C5.2(10); & Schedule 2(5)
Bilge level alarms	Yes	Will be required in fish holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing vessels will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 2: 15m passenger vessel, coastal limits

Vessel Details

Operating area:	Coastal limits
Vessel type	Passenger (excursion)
Length overall:	15m
	1 crew minimum
	36 day passengers
POB:	Max 37 persons on board
	0 berths
Construction:	Aluminium
Hull design:	Multihull
Propulsion:	Inboard diesel x 2, segregated (redundant) engine rooms.
Engine rating:	2 x 149 kW



Fire Protection – Rule Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as ‘Low fire risk’, ‘Medium fire risk’, or ‘High fire risk’	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Medium fire risk</u> because: <ul style="list-style-type: none"> It is 15m or more and less than 24m; and Operates in the coastal limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the threshold for requiring structural fire protection.	Structural fire protection rules will apply to a <u>new</u> High fire risk vessel of 15m or more; a Medium fire risk vessel of 24m or more; and a vessel powered by an electrical energy storage (EES) system of 120 kW or more.	Rule C3.2
LPG installations	Yes	Will apply to all vessels	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> This vessel will require a hard wired fire detection and alarm system. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2. Schedule 1(1)
Fixed fire-extinguishing (FFE) system in the propulsion machinery space	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> An existing vessel will have 2 years to install a FFE system. The propulsion machinery space will need to be gastight. 	Rule C8.2. Schedule 1(1). Rule C8.4.
Fire pumps, fire hydrants, fire hoses,	Yes	Vessel is 15m or more and less than 24m	<ul style="list-style-type: none"> The vessel will require 1 main fire pump. Requirements for fire hoses, hydrants etc. will be much the same as the current rules. 	MTI 12.1 and 12.3

Life-saving Appliances – Rule Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes	Will be required for all vessels operating in the coastal limit.	<ul style="list-style-type: none"> Liferafts will require enough capacity to carry all persons on board. No change from the current rules for this vessel. 	Rule C7.2 MTI 7.2
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from the current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	Yes	Vessel carries 12 passengers or more and operates in the coastal limit.	This will be a change for this vessel. The current rules require a rescue boat if more than 36 passengers are carried. (Note. A rescue boat would not be required if the vessel carries an auxiliary craft that meets applicable rules.)	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 9m or more operating beyond inshore limits.	<p>Will require 4 lifebuoys. (This is an increase of 2 over the current rules).</p> <p>The surveyor may require additional lifebuoys if:</p> <ul style="list-style-type: none"> The number of decks, or the length of the vessel, means no lifebuoys are accessible within 15m on an exposed deck; or A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Will be required for all vessels operating in the coastal limit.	4 rocket parachute and 2 buoyant smoke signals; or 4 rocket parachute, 1 buoyant smoke and 2 hand smoke signals. (The current rules require 4 rocket parachute and 2 buoyant smoke signals).	MTI 2.2
Machinery – Rule Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)
Remote manual engine shut down (or kill switch)	Yes	Will apply to all inboard engines.	<ul style="list-style-type: none"> Will only apply if engine is not readily accessible. Existing vessels will have 5 years to meet this requirement. 	Rule C5.2(10); & Schedule 2(5)

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Bilge level alarms	Yes	Will be required in fish holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing vessels will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Rule Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 3: 11.9m passenger vessel, in inshore limits (a)

Vessel Details	
Operating area:	Inshore limits (a) (per Part 20 Appendix 1) Kaikoura
Vessel type	Passenger (charter boat), day and night operations
Length overall:	11.9 metres
POB:	Minimum 1 crew, Maximum 12 passengers Max 13 persons on board 6 passenger berths
Construction:	FRP
Hull design:	Monohull
Propulsion source:	Inboard Diesel
Engine rating:	447 kW



Fire Protection – Rule Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Medium fire risk</u> because: <ul style="list-style-type: none"> It has 6 berths (i.e. passengers can sleep on the vessel); and Operates in restricted limits. (Note that without the berths, the vessel would be classed as Low fire risk.)	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the threshold for structural fire protection	No change from current rules for this vessel.	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> This vessel will require a hard wired fire detection and alarm system. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2 Schedule 1(1) MTI 7.2
Fixed fire-extinguishing (FFE) system in the propulsion machinery space	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> The propulsion machinery space will need to be gastight. An existing vessel will have from when the rules take effect to install a FFE system. 	Rule C8.2 Schedule 1(1)
Fire pumps, fire hydrants, fire hoses,	No	Vessel is less than 15m in length	<ul style="list-style-type: none"> Fire pumps and hoses etc. will not be required for a vessel of less than 15m. The vessel will need to have 2 fire buckets. 	MTI 12.1 and 12.3

Life-saving Appliances – Rule Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes or no, depending on circumstances	Will not be required for vessels operating in inshore limits (a) unless high risk factors apply (that cannot be mitigated)	<ul style="list-style-type: none"> This requirement will be a change from the current rules, which do not require a liferaft or survival craft options for a vessel this size in this operating area. Liferafts will require enough capacity to carry all persons on board. 	Rule C7.2 MTI 7.2 & Table 7.1
			<ul style="list-style-type: none"> See high risk factors on page 3. High risk factors can be mitigated by carrying a rescue boat; or if the operator operates other vessels in the vicinity; or The surveyor may determine a liferaft is not required if the vessel carries fewer than 8 persons, operates only in daytime, carries extra communications equipment, and persons on board wear lifejackets or PFDs. 	MTI 7.5
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from current rules for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 9m or more and less than 15m operating in the inshore limits	<p>Will require 2 lifebuoys. (No change from the current rules). Up to an additional 4 lifebuoys will need to be carried if:</p> <ul style="list-style-type: none"> The number of decks, or the length of the ship, means no lifebuoys are accessible within 15m on an exposed deck; or A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore limits.	A combination of 4 rocket parachute or 2 red hand flares; and 2 hand smoke signal or 1 buoyant smoke signal. (The current rules require 2 hand flares and 2 buoyant smoke signals.)	MTI 2.2 & Table 2.1
Machinery – Part 3E				
	Required?	Reason	Requirement	Rule/MTI
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)

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Bilge level alarms	Yes	Will be required in any watertight spaces if seawater pipes are present.	Existing vessels will have 2 years to meet this requirement.	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Part 3J				
	Required?	Reason	Requirement	Rule
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 4: 27m passenger vessel, coastal limits

Vessel Details	
Operating area:	Coastal limits
Vessel type	Passenger
Length overall:	27.0 metres
	Minimum 3 crew
POB:	Maximum 150 passengers Max 153 persons on board 0 berthed
Construction:	Aluminium
Hull design:	Catamaran
Propulsion:	Inboard diesel x 2, segregated (redundant) engine rooms.
Engine rating:	2 x 550 kW



Fire Protection – Rule Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Medium fire risk</u> because: <ul style="list-style-type: none"> It carries 37 – 200 passengers; and Operates in the coastal limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the threshold for requiring structural fire protection.	Structural fire protection rules will apply to a <u>new</u> High fire risk vessel of 15m or more; a Medium fire risk vessel of 24m or more; and a vessel powered by an electrical energy storage (EES) system of 120 kW or more.	Rule C3.2
LPG installations	Yes	Will apply to all vessels	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> This vessel will require hard wired fire detection and alarm system. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2. Schedule 1(1)
Fixed fire-extinguishing (FFE) system in the propulsion machinery space	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> An existing vessel will have 2 years to install a FFE system. The propulsion machinery space will need to be gastight. 	Rule C8.2. Schedule 1(1). Rule C8.4.

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Fire pumps, fire hydrants, fire hoses,	Yes	Vessel is a Medium fire risk vessel of 24m or more.	<ul style="list-style-type: none"> Vessel will require 1 main fire pump and 1 emergency fire pump if the main pump is located in a main machinery space. (The current rules require 2 main and 1 emergency pump.) Requirements for hydrants, hoses etc. will be the much the same. 	MTI 12.1 and 12.3
Life-saving Appliances – Rule Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes	Will be required for all vessels operating in the coastal limit.	No change from the current rules for this vessel.	Rule C7.2 MTI 7.2
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from the current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	Yes	Vessel carries 12 passengers or more in the coastal limit.	No change for this vessel. (Note. A rescue boat would not be required if the vessel carries a life boat or auxiliary craft that meets applicable rules.)	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 9m or more operating in the coastal limits.	Will require 4 lifebuoys (no change from the current rules.) The surveyor may require additional lifebuoys if: <ul style="list-style-type: none"> The number of decks, or the length of the vessel, means no lifebuoys are accessible within 15m on an exposed deck; or A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Will be required for all vessels operating in the coastal limit.	4 rocket parachute and 2 buoyant smoke signals; or 4 rocket parachute, 1 buoyant smoke and 2 hand smoke signals. (The current rules require 8 rocket parachute and 2 buoyant smoke signals).	MTI 2.2
Machinery – Rule Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)

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Remote manual engine shut down (or kill switch)	Yes	Will apply to all inboard engines.	<ul style="list-style-type: none"> Will only apply if engine is not readily accessible. Existing vessels will have 5 years to meet this requirement. 	Rule C5.2(10); & Schedule 2(5)
Bilge level alarms	Yes	Will be required in fish holds, cargo holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing vessels will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Rule Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 5: 18m non-passenger vessel, inshore limits (b)

Vessel Details	
Operating area:	Inshore limits (b) (30 NM from safe haven (Port Chalmers).
Vessel type	Day and night operations. AIS.
Length overall:	18 metres
POB:	Min 1 crew Max 6 persons onboard No passengers No berths
Construction:	Aluminium
Hull design:	Multihull
Propulsion source:	Petrol outboard
Engine rating:	220 kW for each engine outboard



Fire Protection – Rule Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Medium fire risk</u> because: <ul style="list-style-type: none"> It is more than 15m in length; and Operates in restricted limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the proposed threshold for when structural fire protection will be required.	No change from the current rules for this vessel.	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> This vessel will require a hard wired fire detection and alarm system. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2 Schedule 1(1)
Fixed fire-extinguishing (FFE) system in the propulsion machinery space	No	Vessel will be classed as a Medium fire risk vessel.	A FFE system will not be required because the vessel does not have a propulsion machinery space.	Rule C8.2

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Fire pumps, fire hydrants, fire hoses,	No	Vessel will be classed as Medium fire risk, and is 15m or more and less than 24m	Fire pumps and fire hose appliances will not be required on a medium fire-risk vessel that has no inboard machinery space. (The current rules require 1 main fire pump and associated fire appliances).	Rule C12.2
Life-saving Appliances – Rule Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes	Will be required for vessels of more than 12m operating in inshore limits (b).	<ul style="list-style-type: none"> This requirement will be a change from the current rules, in which operators may choose from a range of survival craft and buoyant apparatus options that includes liferafts. There will need to be enough liferaft capacity to carry all persons on board. 	Rule C7.2 MTI 7.2 & Table 7.1
Lifejacket or personal flotation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from the current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from the current rules for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 15m or more operating in inshore limits	<p>Will require 4 lifebuoys. (An increase of 2 over the current rules). The surveyor may require additional lifebuoys if:</p> <ul style="list-style-type: none"> The number of decks, or the length of the ship, means no lifebuoys are accessible within 15 metres on an exposed deck; or A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore limits.	A combination of 4 rocket parachute or 2 red hand flares; and 2 hand smoke signal or 1 buoyant smoke signal. (The current rules require 2 rocket parachute flares and 2 buoyant smoke signals.)	MTI 2.2 & Table 2.1
Machinery – Rule Part 3E and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)

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Remote manual engine shut down (or kill switch)	Yes	Will apply to all inboard engines.	<ul style="list-style-type: none"> Will only apply if engine is not readily accessible. Existing vessels will have 5 years to meet this requirement. 	Rule C5.2(10); & Schedule 2(5)
Bilge level alarms	Yes	Will be required in fish holds, cargo holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing ships will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24 metres in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Rule Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24 metres in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 6: 8.6m flat bottomed work boat, enclosed water limits

Vessel Details	
Operating area:	Enclosed, Lyttelton, night time operations.
Vessel type	Work boat - – Non passenger
Length overall:	8.6 metres
POB:	Max 4 crew No passengers No berths
Construction:	Aluminium
Hull design:	Flat bottom
Propulsion source:	Petrol outboard
Engine rating:	1 x 90 kW



Fire Protection – Rule Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Low fire risk</u> because: <ul style="list-style-type: none"> It is less than 15m in length; and Operates in enclosed water limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the proposed threshold for when structural fire protection will be required.	No change from the current rules for this vessel.	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	No	Vessel will be classed as Low fire risk.	No change from the current rules for this vessel.	Rule C7.2 Schedule 1(1)
Fixed fire-extinguishing (FFE) system in the propulsion machinery space	No	Vessel does not have inboard propulsion machinery of 120 kW or more	No change from the current rules for this vessel.	Rule C8.2 Schedule 1(1)
Fire pumps, fire hydrants, fire hoses,	No	Vessel is less than 15m	<ul style="list-style-type: none"> Fire pumps and hoses etc. will not be required for a vessel of less than 15m. The vessel will need to have 2 fire buckets. 	MTI 12.1 and 12.3
Life-saving Appliances – Rule Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI

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Liferafts	Yes or no, depending on circumstances	Will not be required for vessels operating in enclosed water limits unless there are high risk factors that cannot be mitigated.	<ul style="list-style-type: none"> Requiring liferafts will be a change from the current rules, in which operators may choose from a range of survival craft options that includes liferafts. There will need to be enough liferaft capacity to carry all persons on board. 	Rule C7.2 MTI 7.2 & Table 7.1
			<ul style="list-style-type: none"> See high risk factors on page 3. High risk factors can be mitigated by carrying a rescue boat; or if the operator operates other vessels in the vicinity; or The surveyor may determine a liferaft is not required if the vessel carries fewer than 8 persons, operates only in daytime, carries extra communications equipment, and person on board wear lifejackets or PFDs. 	MTI 7.5
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from the current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from the current rules for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of less than 9m operating in inshore limits.	<ul style="list-style-type: none"> Will require 1 lifebuoy and 1 throw bag. (The current rules require 1 lifebuoy <u>or</u> 1 throw bag). The surveyor may require additional lifebuoys if the lifebuoys are not easily accessible. 	MTI 4.2(1) MTI 4.4(2) & (3)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore limits.	A combination of 2 rocket parachute flares or 2 red hand flares; and 2 hand smoke signals or 1 buoyant smoke signal. (The current rules require at least 2 buoyant smoke signals.)	MTI 2.2 & Table 2.1
Machinery – Rule Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)
Bilge level alarms	Yes	Will be required in fish holds, cargo holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing ships will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)

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Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Rule Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 7: 13m passenger sailing charter vessel, inshore limits (a)

Vessel Details	
Operating area:	Inshore limits (a) (per Part 20 Appendix 1) Northland
Vessel type	Passenger Sailing Charter Day time only AIS
Length overall:	13.1 metres
POB:	Minimum 1 crew (not hire and drive) Max 10 people Max 6 berthed
Construction:	FRP
Hull design:	Monohull
Propulsion source:	Sail, inboard Diesel
Engine rating:	30 kW



Fire Protection – Rule Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as ‘Low fire risk’, ‘Medium fire risk’, or ‘High fire risk’	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Low fire risk</u> because: <ul style="list-style-type: none"> It has 1 – 36 passengers; and Operates in restricted limits; and Is a daytime operation. (Note that if passengers stayed on the vessel overnight, it would be classed as Medium fire risk.)	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the threshold for structural fire protection	No change from the current rules for this vessel.	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 & C5.2
Fire detection and fire alarm	No	Vessel will be classed as a Low fire risk vessel.	A low fire-risk vessel will need smoke detector/alarms or heat detector/alarms if it is more than 6m in length <u>and</u> has inboard propulsion machinery of 120 kW or more output. (Note that if passengers stayed on the vessel overnight, it would be classed as Medium fire risk, and would require a fire detection and fire alarm system.)	Rule C7.2

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Fixed fire-extinguishing (FFE) system in the propulsion machinery space	No	Vessel will be classed as a Low fire risk vessel.	<ul style="list-style-type: none"> A Low fire-risk vessel will need to have a FFE system in the propulsion machinery space if it is more than 6m in length <u>and</u> has inboard propulsion machinery of 120 kW or more output. This is a change from the current rules, for sailing vessels, which require a FFE system for a vessel this size. <p>(Note that if passengers stayed on the vessel overnight, it would be classed as Medium fire risk, and would require a FFE system.)</p>	Rule C8.2
Fire pumps, fire hydrants, fire hoses,	No	Vessel is less than 15m in length.	<ul style="list-style-type: none"> Fire pumps and hoses etc. will not be required for a vessel of less than 15m. (The current rules require 1 main fire pump and at least 1 hydrant and hose.) The vessel will need to have 2 fire buckets. 	MTI 12.1 and 12.3
Life-saving Appliances - Rule Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes or no, depending on circumstances	Not required for vessels operating in inshore limits (a) unless there are high risk factors that cannot be mitigated.	<ul style="list-style-type: none"> This requirement will be a change from the current rules, which require a dinghy or tender for a vessel this size. There will need to be enough liferaft capacity to carry all persons on board. 	Rule C7.2 MTI 7.2 & Table 7.1
			<ul style="list-style-type: none"> See high risk factors on page 3. High risk factors can be mitigated by carrying a rescue boat; or if the operator operates other vessels in the vicinity. 	MTI 7.5
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from the current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from the current rules for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 9m or more and less than 15m operating in inshore limits.	<p>Will require 2 lifebuoys. (No change over the current rules). The surveyor may require additional lifebuoys if:</p> <ul style="list-style-type: none"> A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary; or Persons on board a vessel are unlikely to be able to effectively access or deploy a lifebuoy. 	MTI 4.2(1) MTI 4.6(2) MTI 4.6(3)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore limits.	<p>A combination of 4 rocket parachute or 2 red hand flares; and 2 hand smoke signal or 1 buoyant smoke signal. (The current rules require 4 rocket parachute flares, 6 red hand flares and 2 buoyant smoke signals.)</p>	MTI 2.2 & Table 2.1

Machinery – Rule Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)
Bilge level alarms	Yes	Will be required in any watertight spaces if seawater pipes are present.	Existing vessels will have 2 years to meet this requirement.	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Rule Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 8: 19m passenger vessel, coastal limits

Vessel Details	
Operating area:	Coastal limits
Vessel type	Passenger charter
Length overall:	19.2 m
POB:	Minimum 1 crew, Maximum 36 day passengers, Maximum 40 persons on board 12 berths
Construction:	Steel
Hull design:	Monohull
Propulsion:	Inboard Diesel
Engine rating:	427 kW



Fire Protection – Part 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as High fire risk because <ul style="list-style-type: none"> It has 1 – 36 berths; and Operates in the coastal limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the threshold for requiring structural fire protection.	Structural fire protection rules will apply to a <u>new</u> High fire risk vessel of 15m or more; a Medium fire risk vessel of 24m or more; and a vessel powered by an electrical energy storage (EES) system of 120 kW or more.	Rule C3.2
LPG installations	Yes	Will apply to all vessels	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a High fire risk vessel.	<ul style="list-style-type: none"> This vessel will require hard wired fire detection and alarm system. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2. Schedule 1(1)
Fixed fire-extinguishing system in the propulsion machinery space	Yes	Vessel will be classed as a High fire risk vessel.	<ul style="list-style-type: none"> An existing vessel will have 2 years to install a fixed fire-extinguishing system. The propulsion machinery space will need to be gastight. 	Rule C8.2. Schedule 1(1). Rule C8.4.
Fire pumps, fire hydrants, fire hoses,	Yes	Vessel is a High fire risk vessel of 15m or more and less than 24m.	No change for this vessel	MTI 12.1 and 12.3

Life-saving Appliances - Part 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes	Will be required for all vessels operating in the coastal limit.	<ul style="list-style-type: none"> Liferafts require enough capacity to carry all persons on board. No change for this vessel. 	MTI 7.2
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	Yes	Vessel carries 12 passengers or more in the coastal limit. A rescue boat would not be required if the vessel carries an auxiliary craft that meets applicable rules.	No change for this vessel. The current rules require a rescue boat (or a life boat that meet the requirements of the <i>International Life-Saving Appliance Code</i>).	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 9m or more operating beyond inshore limits.	Will require 4 lifebuoys. (This is an increase of 2 over the current rules). The surveyor may require additional lifebuoys if: <ul style="list-style-type: none"> The number of decks, or the length of the vessel, means no lifebuoys are accessible within 15m on an exposed deck; or A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Will be required for all vessels operating in the coastal limit.	4 rocket parachute and 2 buoyant smoke signals; or 4 rocket parachute, 1 buoyant smoke and 2 hand smoke signals. (The current rules require 4 rocket parachute and 2 buoyant smoke signals).	MTI 2.2
Machinery – Part 3E				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)
Remote manual engine shut down (or kill switch)	Yes	Will apply to all inboard engines.	<ul style="list-style-type: none"> Will only apply if engine is not readily accessible. Existing vessels will have 5 years to meet this requirement. 	Rule C5.2(10); & Schedule 2(5)

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Bilge level alarms	Yes	Will be required in fish holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing vessels will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Part 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 9: 23m marine farming vessel, inshore limits (a)

Vessel Details	
Operating area:	Inshore limits (a) (Nelson/Marlborough)
Vessel type	Marine farming vessel – Non passenger
Length overall:	23 metres
POB:	Minimum 2 crew 0 Passengers Maximum 6 crew 0 berths
Construction:	Aluminium
Hull design:	Monohull
Propulsion source:	Inboard Diesel
Engine rating:	230kW



Fire Protection – Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Medium fire risk</u> because: <ul style="list-style-type: none"> It is more than 15m in length and less than 24m; and Operates in restricted limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No change	This vessel does not meet the proposed threshold for when structural fire protection will be required.	No change from the current rules for this vessel.	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> This vessel will require a hard wired fire detection and alarm system. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2 Schedule 1(1)
Fixed fire-extinguishing (FFE) system in the propulsion machinery space	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> The propulsion machinery space will need to be gastight. An existing vessel will have 2 years to install an FFE system. 	Rule C8.2 Schedule 1(1)

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Fire pumps, fire hydrants, fire hoses,	Yes	Vessel will be classed as Medium fire risk, and is 15m or more and less than 24m.	This vessel will require 1 main fire pump; plus 1 emergency fire pump if the main fire pump is located in the main machinery space. (No change from the current rules). Requirements for fire hoses, fire hydrants etc. will be much the same as the current rules.	MTI 12.1 MTI 12.3
Life-saving Appliances – Rule Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes or no, depending on circumstances	Will not be required for vessels operating in inshore limits (a) unless there are high risk factors that cannot be mitigated.	<ul style="list-style-type: none"> This requirement will be a change from the current rules, in which operators may choose from a range of survival craft options that includes liferafts. Liferafts will require enough capacity to carry all persons on board. 	Rule C7.2 MTI 7.2 & Table 7.1
			<ul style="list-style-type: none"> See high risk factors on page 3. High risk factors can be mitigated by carrying a rescue boat; or if the operator operates other vessels in the vicinity. 	MTI 7.5
Lifeguard or personal floatation device (PFD)	Yes	A lifeguard or PFD will be required for all persons on board	No change from the current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from the current rules for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 15m or more operating in inshore limits	Will require 4 lifebuoys. (An increase of 2 over the current rules). The surveyor may require additional lifebuoys if: <ul style="list-style-type: none"> The number of decks, or the length of the vessel, means no lifebuoys are accessible within 15m on an exposed deck; or A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore limits.	A combination of 4 rocket parachute or 2 red hand flares; and 2 hand smoke signal or 1 buoyant smoke signal. (The current rules require 2 rocket parachute flares and 2 buoyant smoke signals.)	MTI 2.2 & Table 2.1
Machinery – Rule Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)

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Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)
Remote manual engine shut down (or kill switch)	Yes	Will apply to all inboard engines.	<ul style="list-style-type: none"> Will only apply if engine is not readily accessible. Existing vessels will have 5 years to meet this requirement. 	Rule C5.2(10); & Schedule 2(5)
Bilge level alarms	Yes	Will be required in fish holds, cargo holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing vessels will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Rule Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 10: 18m fishing vessel, inshore fishing limits

Vessel Details	
Operating area:	Inshore fishing limits
Vessel type	Fishing
Length overall:	18 metres
POB:	Minimum 2 crew 0 passengers Maximum 6 crew 6 crew berths
Construction:	Wood
Hull design:	Monohull trawler
Propulsion source:	Inboard Diesel
Engine rating:	140kW



Fire Protection – Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as Medium fire risk because: <ul style="list-style-type: none"> It is more than 15m in length and less than 24m; and Operates in the inshore fishing limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the proposed threshold for Structural fire protection.	No change from current rules for this vessel	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> This vessel will require a hard wired fire detection and alarm system. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2 Schedule 1(1)
Fixed fire-extinguishing (FFE) system in the propulsion machinery space	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> The propulsion machinery space will need to be gastight. An existing vessel will have 2 years to install an FFE system. 	Rule C8.2 Schedule 1(1)
Fire pumps, fire hydrants, fire hoses,	No change	Vessel will be classed as Medium fire risk, and is 15m or more and less than 24m.	No change from current rules for this vessel.	MTI 12.1 and 12.3

Life-saving Appliances - Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes	Will be required for vessels of more than 12m operating in inshore fishing limits.	<ul style="list-style-type: none"> The requirement will be the same as the current rules. Liferafts will require enough capacity to carry all persons on board. 	Rule C7.2 MTI 7.2 & Table 7.1
Lifejacket or personal flotation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from current rules for this vessel	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from current rules for this vessel	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 9m or more operating in inshore limits	<p>Will require 4 lifebuoys. (An increase of 1 over the current rules). Up to an additional 4 lifebuoys will need to be carried if:</p> <ul style="list-style-type: none"> The number of decks, or the length of the vessel, means no lifebuoys are accessible within 15m on an exposed deck; or A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore fishing limit	A combination of 4 rocket parachute or 2 red hand flares; and 2 hand smoke signal or 1 buoyant smoke signal. (The current rules require 4 rocket parachute and 2 buoyant smoke signals.)	MTI 2.2
Machinery – Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)
Remote manual engine shut down (or kill switch)	Yes	Will apply to all inboard engines.	<ul style="list-style-type: none"> Will only apply if engine is not readily accessible. Existing vessels will have 5 years to meet this requirement. 	Rule C5.2(10); & Schedule 2(5)
Bilge level alarms	Yes	Will be required in fish holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing vessels will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)

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IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> • Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. • Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> • Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. • Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. • Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 11: 23m passenger vessel, inshore limits (a)

Vessel Details	
Operating area:	Inshore limits (a) (Auckland)
Vessel type	Passenger ferry, day and night time operations
Length overall:	23.9m
POB:	220 passengers 3 crew
Construction:	FRP
Hull design:	Catamaran
Propulsion source:	Electric battery
Engine rating:	2 x 400kw electric motors



Fire Protection – Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Medium fire risk</u> because: <ul style="list-style-type: none"> It carries more than 200 passengers; and Operates in restricted limits. 	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	Yes	This vessel has an electrical energy storage system (ESS) of 120 kW or more used to power main propulsion machinery	This vessel will require fire-resisting divisions separating the ESS from other parts of the vessel.	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a Medium fire risk vessel. Additional requirements apply due to the electrical propulsion system.	<ul style="list-style-type: none"> An existing vessel will have 2 years from when the rules take effect to install a hard wired fire detection and alarm system. A suitable gas detection system will need to be installed in the ESS space. 	Rule C7.2 Schedule 1(1) MTI 7.2
Fixed fire-extinguishing (FFE) system in the propulsion machinery space	Yes	Vessel will be classed as a Medium fire risk vessel.	<ul style="list-style-type: none"> The ESS space will need to be gastight. An existing vessel will have 2 years to install an FFE system. 	Rule C8.2 Schedule 1(1)
Fire pumps, fire hydrants, fire hoses,	Yes No change or reduction	Vessel will be classed as Medium fire risk, and is 15m or more and less than 24m.	<ul style="list-style-type: none"> The rules will no longer require an emergency fire pump in addition to the main pump. (A change from the current rules.) 	MTI 12.1 and 12.3

Life-saving Appliances - Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes or no, depending on circumstances	Will not be required for vessels operating in inshore limits (a) unless high risk factors apply that cannot be mitigated.	<ul style="list-style-type: none"> This requirement will be a change from the current rules, in which operators may choose from a range of survival craft options that includes liferafts. Liferafts will require enough capacity to carry all persons on board. 	Rule C7.2 MTI 7.2 & Table 7.1
			<ul style="list-style-type: none"> See high risk factors on page 3. High risk factors can be mitigated by carrying a rescue boat; or if the operator operates other vessels in the vicinity. 	MTI 7.5
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from current rules for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 15m or more operating in inshore limits.	<p>Will require 4 lifebuoys. (An increase of 2 over the current rules).</p> <p>The surveyor may require additional lifebuoys if:</p> <ul style="list-style-type: none"> The number of decks, or the length of the vessel, means no lifebuoys are accessible within 15m on an exposed deck; or A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary. 	MTI 4.2(1) MTI 4.6(2)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore limits.	A combination of 4 rocket parachute or 2 red hand flares; and 2 hand smoke signal or 1 buoyant smoke signal. (The current rules require 2 rocket parachute flares and 2 buoyant smoke signals.)	MTI 2.2 & Table 2.1
Machinery – Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Visual or audible alarm to indicate abnormal engine conditions	No	Will apply to all internal combustion engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement. (Note. Electrically propelled vessels will need to meet a similar requirement under the Electrical Rules Part 3F)	Rule C5.2(13)
Bilge level alarms	Yes	Will be required in any watertight spaces if seawater pipes are present.	Existing vessels will have 2 years to meet this requirement.	Rule C7.4(1); & Schedule 2(5)

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Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3) Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24 m in length.	<ul style="list-style-type: none"> Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1
Vessel will be allowed to carry a single anchor (rather than 2)	Allowed as an option	Will apply to passenger vessels of less than 24m in length that operate in inshore limits (a).	<ul style="list-style-type: none"> Vessel must travel from a wharf to a wharf – i.e. will only apply if the vessel does not stop or anchor under normal operations. Inshore limits (a) refers to the restricted limits specified in Part 2 of Appendix 1 of Maritime Rules Part 20 	Rule 2.2

Example 12: 5m passenger vessel, inshore limits (b)

Vessel Details	
Operating area:	Inshore limits less than 2 NM from shore or 5 NM from safe haven (Greymouth)
Vessel type	Passenger – sightseeing and charter fishing. Daytime operations only. AIS equipped.
Length overall:	5 metres
POB:	1 crew 12 passengers
Construction:	Aluminium
Hull design:	Monohull
Propulsion source:	2 x petrol outboard
Engine rating:	2 x 120 hp (approximately 180 kW)



Fire Protection – Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Low fire risk</u> because: <ul style="list-style-type: none"> It is less than 15m in length; and Operates in restricted limits; and Has less than 36 passengers. 	Rule C2.1 & Table 2.1
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	No	Vessel will be classed as Low fire risk.	<ul style="list-style-type: none"> No change from the current rules for this vessel. Vessel does not have inboard propulsion machinery of 120 kW or more. 	Rule C7.2 Rule C8.2
Fixed fire-extinguishing system in the propulsion machinery space	No			
Fire pumps, fire hydrants, fire hoses,	No	Vessel is less than 15m	<ul style="list-style-type: none"> Fire pumps and hoses etc. will not be required for a vessel of less than 15m. The vessel will need to have 2 fire buckets. 	MTI 12.1 and 12.3
Life-saving Appliances - Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferaft	Yes or no, depending on circumstances	Will not be required for vessels of this size operating in inshore limits (b) if criteria are met	<ul style="list-style-type: none"> Requiring a liferaft will be a change from the current rules. There will need to be enough liferaft capacity to carry all persons on board. 	MTI 7.2 & Table 7.1

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			<p>A surveyor may determine a liferaft is not required if—</p> <ul style="list-style-type: none"> The vessel operates within 2 NM of the shore, launch spot or parent ship, or 5 NM of a safe haven; is a daytime operation; and has arrangements in place to provide for likely rescue within 30 minutes; <p>or</p> <ul style="list-style-type: none"> Persons on board wear a 100 Newton lifejacket at all time during a voyage. 	MTI 7.5
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from the current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from the current rules for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of less than 9m operating in inshore limits.	<ul style="list-style-type: none"> Will require 1 lifebuoy and 1 throw bag. (The current rules require 1 lifebuoy <u>or</u> 1 throw bag). The surveyor may require additional lifebuoys if the lifebuoys are not easily accessible. 	MTI 4.2(1) MTI 4.4(2) & (3)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore limits.	A combination of 2 rocket parachute flares or 2 red hand flares; and 2 hand smoke signals or 1 buoyant smoke signal. (The current rules require at least 2 buoyant smoke signals.)	MTI 2.2 & Table 2.1
Machinery – Rule Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Fibre reinforced plastic (FRP) and thermoplastic free-standing fuel tanks will now allowed	Allowed as an option	Will apply to all vessels.	If used, manufacturing standards and ventilation requirements will apply.	Rules C3.3(22)-(24)
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)
Bilge level alarms	Yes	Will be required in fish holds, cargo holds and other watertight spaces if seawater pipes are present.	<ul style="list-style-type: none"> The rules will clarify the current rules. Existing ships will have 2 years to meet this requirement. 	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)

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Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Rule Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> • Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. • Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> • Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. • Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. • Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 13: 11.9m fishing vessel, inshore fishing limits

Vessel Details	
Operating area:	Inshore fishing
Vessel type	Fishing
Length overall:	11.9 metres
POB:	Minimum 1 crew Max 3 persons on board 3 berths
Construction:	FRP
Hull design:	Monohull
Propulsion source:	Inboard Diesel
Engine rating:	300 kW



Fire Protection – Rule Part 3D and MTI 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel will need to be classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Low fire risk</u> because: <ul style="list-style-type: none"> It is less than 15m in length; and Operates in inshore fishing limits. (Note that if the vessel carried passengers, the berths would change the rating to Medium).	Rule C2.1 & Table 2.1
Structural fire protection (fire-resisting divisions)	No	This vessel does not meet the threshold for structural fire protection	No change from the current rules for this vessel.	Rule C3.2
LPG installations	Yes	Will apply to all vessels.	Any gasfitting work will need to be carried out by a registered and licensed gasfitter.	Rules B1.2 and C5.2
Fire detection and fire alarm	Yes	Vessel will be classed as a Low fire risk vessel. Vessel is more than 6m in length and has inboard main propulsion machinery of 120 kW or more output.	<ul style="list-style-type: none"> This vessel will require stand-alone smoke detector/alarms or heat detector/alarms. An existing vessel will have 2 years from when the rules take effect to meet this requirement. 	Rule C7.2 Schedule 1(1) MTI 7.2
Fixed fire-extinguishing system in the propulsion machinery space	Yes		<ul style="list-style-type: none"> The propulsion machinery space will need to be gastight. An existing vessel will have 2 years to install a FFE system. 	Rule C8.2 Schedule 1(1)
Fire pumps, fire hydrants, fire hoses,	No	Vessel is less than 15m in length	<ul style="list-style-type: none"> Fire pumps and fire hoses etc. will not be required for a vessel of less than 15m. The vessel will need to have 2 fire buckets. 	MTI 12.1 and 12.3

Life-Saving Appliances – Rule Part 3H and MTI 3H				
	Required?	Reason	Requirement	Rule/MTI
Liferafts	Yes or no, depending on circumstances	Will be required for vessels of less than 12m operating in inshore fishing limits <u>unless exclusions</u> apply.	<ul style="list-style-type: none"> Requiring liferafts will be a change from the current rules, in which operators may choose from a range of survival craft options that includes liferafts. Liferafts will require enough capacity to carry all persons on board. 	MTI 7.2 & Table 7.1
			<p>Exclusions:</p> <ul style="list-style-type: none"> No high risk factors apply; <u>or</u> High risk factors can be mitigated by carrying a rescue boat; or if the operator operates other vessels in the vicinity; <u>or</u> The surveyor may determine a liferaft is not required if the vessel carries fewer than 8 persons; operates only in daytime; carries extra communications equipment; and everyone on board wears a lifejacket at all times. 	MTI 7.4 & 7.5
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	No change from the current rules for this vessel.	Rule C5.1 MTI 5.2
Rescue boat	No	Vessel does not meet the threshold.	No change from the current rules for this vessel.	MTI 3.2 & Table 3.1
Lifebuoys	Yes	Will apply to vessels of 9m or more and less than 15m operating in inshore fishing limits.	<p>Will require 2 lifebuoys. (An increase of 1 over the current rules). The surveyor may require additional lifebuoys if:</p> <ul style="list-style-type: none"> A lifebuoy is not easily accessible from the navigating position, where deployment from that position would be necessary; or Persons on board are unlikely to be able to effectively access or deploy a lifebuoy. 	MTI 4.2(1) MTI 4.6(2) & 4.6(3)
Visual signals (flares)	Yes	Required for all vessels operating in the inshore limits.	A combination of 4 rocket parachute or 2 red hand flares; and 2 hand smoke signal or 1 buoyant smoke signal. (The current rules require 4 rocket parachute flares and 2 buoyant smoke signals.)	MTI 2.2 & Table 2.1
Machinery – Rule Part 3E and MTI 3E				
	Required?	Reason	Requirement	Rule/MTI
Visual or audible alarm to indicate abnormal engine conditions	Yes	Will apply to all engines of 120kW or more.	Existing vessels will have 5 years to meet this requirement.	Rule C5.2(13); & Schedule 2(5)

What does this mean for me? The impact of proposed package 1 rule changes on exemplars of vessels in the commercial fleet

Bilge level alarms	Yes	Will be required in any watertight spaces if seawater pipes are present.	Existing vessels will have 2 years to meet this requirement.	Rule C7.4(1); & Schedule 2(5)
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Plastic sea water piping and bilge piping will be allowed	Allowed as an option	Will apply to vessels of less than 24m in length.	Manufacturing standards and installation conditions will apply.	Rules C6.2(5) and C7.2(15) MTI 6.2
Anchors and Cables – Rule Part 3J and MTI 3J				
	Required?	Reason	Requirement	Rule/MTI
Certification requirements for anchors, chain cables and accessories will reduce	Allowed as an option	Will apply to vessels of less than 24m in length.	<ul style="list-style-type: none"> • Anchors of 75 kgs or more and chain cables and accessories of 14mm or more will need to have a certificate issued by the manufacturer. • Certification by a Classification Society will not be required. 	Rule C3.1
Steel wire rope will be allowed for use as anchor cable	Allowed as an option	Will apply to all vessels.	<ul style="list-style-type: none"> • Will apply to vessels with an Equipment Number (EN) of less than 500 - which equates to a standard anchor weight of approximately 1440 kgs. • Each surface the steel wire rope comes into contact with (e.g. roller or pulley) will need a radius of 10 times the diameter of the steel wire rope. • Maintenance conditions will apply. 	Rule B1.1 MTI 2.6
Super high holding power (SHHP) anchors will be allowed	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Example 14: 5.8 metre dive boat, enclosed and inshore limits (b) under a safe operating plan (SOP)

Vessel Details	
Operating area:	Enclosed water; or 5 NM from a safe haven
Vessel type	Recreational diving. Daytime operations only.
Length overall:	5.8 metres
POB:	1 crew 6 passengers
Construction:	Rigid inflatable (RIB)
Hull design:	Monohull
Propulsion:	1 x petrol outboard
Engine rating:	1 x 90 hp (approximately 68 kW)



Fire Protection – Part 3D				
	Required?	Reason	Requirement	Rule/MTI
Vessel classified as 'Low fire risk', 'Medium fire risk', or 'High fire risk'	Yes	All vessels will need to be given a fire risk rating.	This vessel will be classed as <u>Low fire risk</u> because: <ul style="list-style-type: none"> It is less than 15m in length; and Operates in restricted limits; and Has less than 36 passengers. 	Rule C2.1 & Table 2.1
Fire detection and fire alarm	No	Vessel will be classed as Low fire risk.	No change to current rules.	Rule C7.2
Fixed fire-extinguishing system in the propulsion machinery space	No	Vessel does not have inboard propulsion machinery of 120 kW or more.	No change to current rules.	Rule C8.2
Fire pumps, fire hydrants, fire hoses,	No	Vessel is less than 15m in length.	<ul style="list-style-type: none"> Fire pumps and hoses etc. will not be required for a vessel of less than 15m. The vessel will need to have 2 fire buckets. 	MTI 12.1 and 12.3
Life-Saving Appliances - Part 3H				
	Required?	Reason	Requirement	Rule/MTI
Lifejacket or personal floatation device (PFD)	Yes	A lifejacket or PFD will be required for all persons on board	The surveyor may determine that a full body wet suit meets the requirements for wearing a lifejacket or PFD. (This is not a change from the current rules.)	Rule C5.1 MTI 5.2 MTI 5.4 & 5.5
Lifebuoys	Yes	Will apply to vessels of less than 9m operating in enclosed and inshore limits.	Will require 1 lifebuoy and 1 throw bag. (The current rules do not require lifebuoys).	MTI 4.2(1) MTI 4.4(2) & (3)

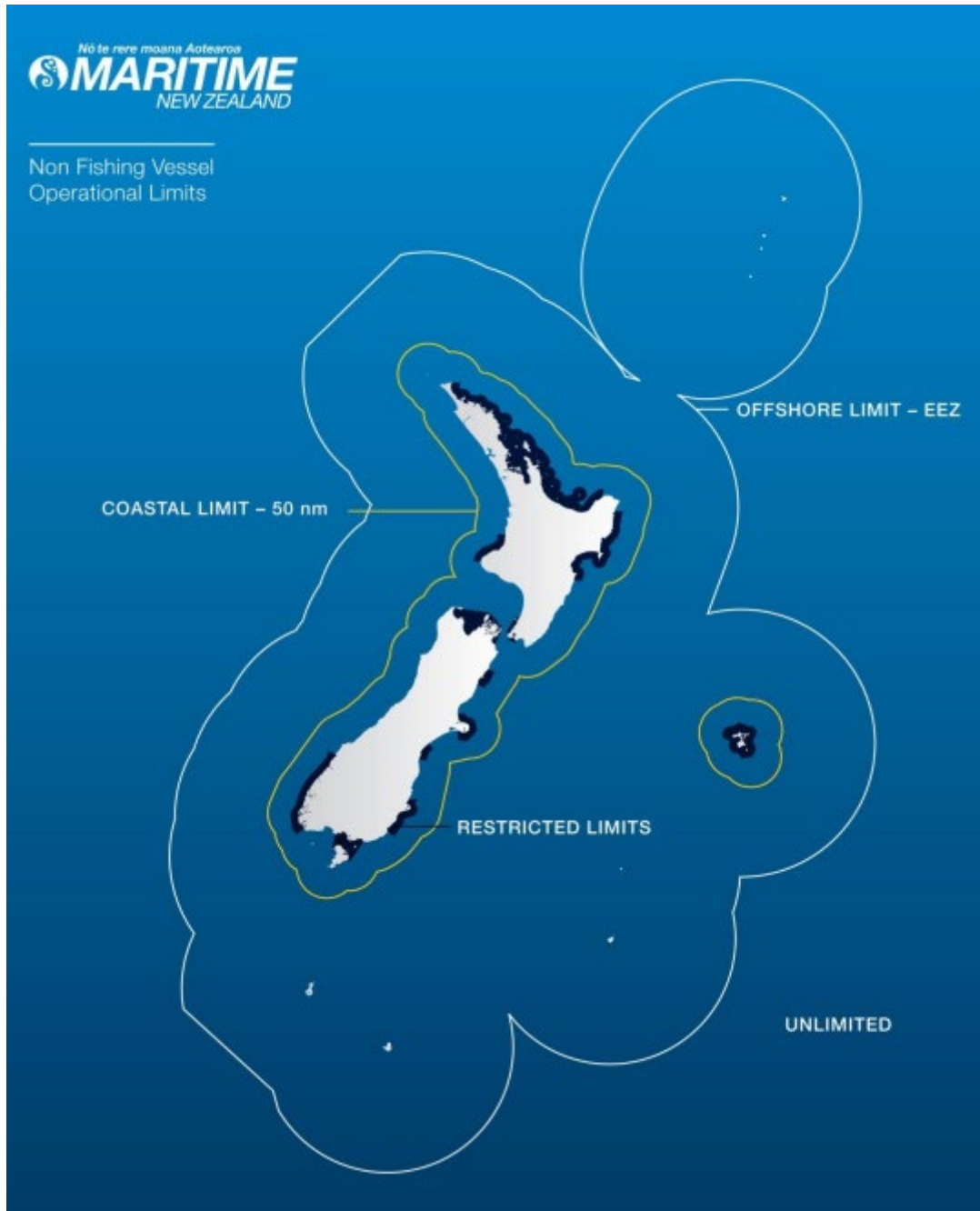
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Liferaft	Yes or no, depending on circumstances	Will not be required for vessels of this size operating in inshore limits (b) if criteria are met	<p>A surveyor may determine a liferaft is not required if—</p> <ul style="list-style-type: none"> The vessel operates within 2 NM of the shore, launch spot or parent ship, or 5 NM of a safe haven; is a daytime operation; and has arrangements in place to provide for likely rescue within 30 minutes; <p>or</p> <ul style="list-style-type: none"> Persons on board wear a 100 Newton lifejacket at all time during a voyage. 	Rule C7.2 MTI 7.2 & Table 7.1 MTI 7.5
Visual signals (flares)	Yes	Required for all vessels operating in enclosed and inshore limits.	<ul style="list-style-type: none"> Enclosed: A combination of 2 rocket parachute flares or 2 red hand flares; and 2 hand smoke signals or 1 buoyant smoke signal. Inshore: 4 rocket parachute or 2 red hand flares; and 2 hand smoke signal or 1 buoyant smoke signal <p>(The current rules require 2 buoyant smoke floats and, if operating in hours of darkness, 2 hand flares in enclosed limits; and 2 hand flares and 2 buoyant smoke signals within inshore limits).</p>	MTI 2.2 & Table 2.1
Machinery – Part 3E				
	Required?	Reason	Requirement	Rule/MTI
Electrical submersible bilge pump and bilge level alarm on separate circuits	Yes	Will apply to all vessels.	Existing vessels will have 5 years to meet this requirement	Rule C7.4(3); & Schedule 2(5)
IP67 rating for electric bilge pumps	Yes	Will apply to all vessels.	Will apply when a new electric bilge pump is installed.	Rule C7.3(16) MTI 7.1(3)
Anchors and Cables – Part 3J				
	Required?	Reason	Requirement	Rule/MTI
Super high holding power (SHHP) anchors	Allowed as an option	Will apply to all vessels.	A SHHP anchor will need to have a type approval issued by recognised classification society.	MTI 3.1

Appendix 1: Information on operating limits

The following diagram is an extract from Part 20 of the Maritime Rules available on our website at <https://www.maritimenz.govt.nz/media/knfnwbs0/part20-maritime-rule.pdf>. Part 20 provides further information on the boundaries of these operating limits

Operating limits – non fishing vessels



Operating limits – fishing vessels

