



Australian Government
Australian Maritime Safety Authority

AMSA MO 2018/5

Marine Order 72 (Engineer officers) Amendment Order 2018

I, Michael Kinley, Chief Executive Officer of the Australian Maritime Safety Authority, make this Order under subsection 342(1) of the *Navigation Act 2012*.

15 March 2018

Michael Kinley
Chief Executive Officer

1 Name of Order

This Order is *Marine Order 72 (Engineer officers) Amendment Order 2018*.

2 Commencement

This Order commences on 1 April 2018.

3 Amendment of *Marine Order 72 (Engineer officers) 2014*

Schedule 1 amends *Marine Order 72 (Engineer officers) 2014*.

Schedule 1 Amendment

(section 3)

[1] Subsection 2(1), note

substitute

Note The latest edition of the STCW Convention and the STCW Code (including the amendments to the annex of the Convention known as the 2010 Manila Amendments) can be purchased from the International Maritime Organization. See the IMO website at <http://www.imo.org/publications>. The STCW Convention (ATS series number [1984] ATS 7) and STCW Code (ATS series number [1997] ATS 33) including any amendments in force are in the Australian Treaties Series accessible from the Australian Treaties Library on the AustLII website at <http://www.austlii.edu.au>.

[2] Subsection 4(1), after definition of *engineer watchkeeper duties or functions*

insert

foreign certificate means a certificate that:

- (a) is issued by a country other than Australia in accordance with the STCW Convention; and
- (b) is not a certificate restricted to service on vessels engaged on near-coastal voyages (that complies with STCW Code section A-II/1 paragraph 7, A-II/2 paragraph 8, A-II/3, A-III/1 paragraph 10, A-III/2 paragraph 8 or A-III/3 paragraph 8).

[3] Subsection 4(1), after definition of *Marine Engine Driver Grade 1 NC certificate of competency*

insert

propulsion power, for a vessel, means the total maximum continuous rated output power, in kilowatts, of all the vessel's main propulsion machinery which appears on the vessel's certificate of registry or other official document.

[4] Subsection 4(1), definition of *qualification that is not workshop skills equivalent*

substitute

qualification that is not workshop skills equivalent means any of the following:

- (a) an Australian degree or advanced diploma in mechanical engineering, electrical engineering or electronics;

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- (b) Chartered Engineer awarded by the Institute of Engineers Australia;
 - (c) an approved engineering qualification.

[5] Subsection 4(1), definition of *workshop skills equivalent qualification*

substitute

workshop skills equivalent qualification means any of the following:

- (a) Certificate III in Engineering/mechanical trade;
- (b) Certificate III in Electrical fitting;
- (c) Certificate III in Automotive diesel engine technology;
- (d) Certificate III in Automotive/mechanical — diesel fitter;
- (e) Certificate III in Automotive/mechanical — heavy vehicle road transport;
- (f) Certificate III in Automotive/mechanical — heavy vehicle mobile equipment, plant/earthmoving/agriculture;
- (g) Certificate III in Automotive engine reconditioning;
- (h) Certificate IV in ESI generation maintenance — electrical electronics;
- (i) Certificate IV in ESI generation maintenance — mechanical;
- (j) an Australian trade certificate in fitter and turner/machinist;
- (k) an Australian trade certificate in diesel fitter;
- (l) an Australian trade certificate in electrical fitter;
- (m) an Australian Recognised Trade Certificate in the same classification as an Australian trade certificate mentioned in this definition;
- (n) any other approved qualification that includes workshop skills.

Note for paragraph (m) Australian Recognised Trade Certificates are issued in recognition of trade certificates or other qualifications of a country other than Australia.

[6] Section 8

omit

applies

insert

applies, other than an electro-technical officer grade of engineer officer certificate,

[7] Section 10

substitute

10 Qualifying seagoing service — general requirements

- (1) A qualifying seagoing service eligibility requirement mentioned in Schedule 2 for a seafarer certificate must comply with Schedule 3.
- (2) A qualifying seagoing service revalidation requirement mentioned in Schedule 4 for a certificate must comply with Schedule 3.

Note See also Subdivision 3.1 of *Marine Order 70 (Seafarer certification) 2014* for the general rules for the calculation of qualifying seagoing service.

[8] Section 11

substitute

11 Revalidation requirements

AMSA may revalidate a seafarer certificate as engineer officer, or a certificate or recognition of that kind of certificate, if satisfied that:

- (a) the certificate is not suspended, cancelled or revoked; and
- (b) the applicant satisfies the revalidation requirements mentioned in Schedule 4.

[9] Section 12

substitute

12 Expiry of previously issued certificates

A certificate of competency as engineer officer that was in force on 31 March 2018, and any endorsement of it, expires on the day AMSA determined for expiry of the certificate.

[10] Schedule 1, column 1

omit

Engineer Watchkeeper

insert

Engineer Watchkeeper (Motor)

Engineer Watchkeeper (Steam)

Engineer Watchkeeper (Steam and Motor)

[11] Schedule 1, column 1

omit

Engineer Class 2

insert

Engineer Class 2 (Motor)

Engineer Class 2 (Steam)

Engineer Class 2 (Steam and Motor)

[12] Schedule 1, column 1

omit

Engineer Class 1

insert

Engineer Class 1 (Motor)

Engineer Class 1 (Steam)

Engineer Class 1 (Steam and Motor)

[13] **Schedule 2**

substitute

Schedule 2 Eligibility requirements for certificates

(subparagraph 9(b))

Grade of certificate	Eligibility requirements
Electro-technical officer	<p>Person must:</p> <ul style="list-style-type: none">(a) be at least 18 years old; and(b) hold:<ul style="list-style-type: none">(i) an Australian electrical trade certificate; or(ii) an Australian Recognised Trade Certificate in the same classification as an Australian electrical trade certificate; or(iii) an Engineer Watchkeeper, Engineer Class 2 or Engineer Class 1 certificate of competency; or(iv) a foreign certificate AMSA considers to be at least equivalent to an Engineer Watchkeeper, Engineer Class 2 or Engineer Class 1 certificate of competency <p><i>Note</i> For the definition of <i>foreign certificate</i> — see section 4.</p> <p>Person must also satisfy either of the following 2 sets of eligibility requirements:</p> <p style="text-align: center;">Option 1</p> <p>Person must:</p> <ul style="list-style-type: none">(a) have completed an approved training course of at least 12 months duration that includes a program of workshop skills training of at least 6 months; and(b) have completed qualifying seagoing service that is:<ul style="list-style-type: none">(i) of at least 6 months on vessels with a total installed electrical generation capacity of ≥ 750 kW as part of an approved training program under the supervision of a person holding an Electro-technical officer certificate, an Engineer Watchkeeper certificate, an Engineer Class 1 certificate or an Engineer Class 2 certificate; and(ii) documented in an approved Training Record Book <p style="text-align: center;">Option 2</p> <p>Person must:</p> <ul style="list-style-type: none">(a) have completed an approved training course that includes a program of workshop skills training of at least 6 months; and(b) have completed at least 30 months qualifying seagoing service in the engine department on vessels with a total installed electrical generation capacity of ≥ 750 kW;

For both options

Grade of certificate**Eligibility requirements**

The approved training course completed by the person must:

- (a) comply with STCW Code section A-III/6; and
- (b) include the following:
 - (i) training in advanced fire fighting (that complies with STCW Code section A-VI/3);
 - (ii) training in medical first aid (that complies with STCW Code section A-VI/4 paragraphs 1 to 3);
 - (iii) security awareness training (that complies with STCW Code section A-VI/6 paragraph 4)

Also, the person must:

- (a) have completed an approved course of basic safety training (that complies with STCW Code section A-VI/1 paragraph 2); and
- (b) hold a certificate of proficiency in survival craft and rescue boats other than fast rescue boats (that complies with STCW Code section A-VI/2 paragraphs 1 to 4); and
- (c) hold a certificate of medical fitness; and
- (d) have passed a final assessment

Engineer Watchkeeper
(Motor)

Person must:

- (a) be at least 18 years old; and

Engineer Watchkeeper
(Steam)

- (b) have completed at least 1 of the following engineer training programs:

Engineer Watchkeeper
(Steam and Motor)

- (i) an engineer cadet program of at least 3 years duration;
- (ii) a trainee engineer program;
- (iii) an engineering experience training program; and
- (c) if the person has only completed the engineering experience training program — hold or have held for at least 12 months an Engineer Class 3 NC certificate of competency or an unrestricted Engineer Class 3 certificate of competency issued by a State before 1 July 2013;

Note On 1 July 2013 the national law commenced, introducing NC (near coastal) certificates to replace the certificates that had previously been issued by the States and the Northern Territory.

An **engineer cadet program** consists of the following:

- (a) an approved training course that complies with STCW Code section A-III/1 and includes a program of workshop skills training of at least 36 weeks duration in the following competencies specified in STCW Code Table A-III/1 column 1:
 - (i) maintenance and repair of electrical and electronic equipment;

Grade of certificate**Eligibility requirements**

- (ii) appropriate use of hand tools, machine tools and measuring instruments for fabrication and repair on board;
- (iii) maintenance and repair of shipboard machinery and equipment;
- (b) qualifying seagoing service that is:
 - (i) of at least 36 weeks on vessels ≥ 750 kW propulsion power, performing engineer watchkeeper duties or functions in an engine room and under the supervision of a person holding an Engineer Watchkeeper certificate, an Engineer Class 1 certificate or an Engineer Class 2 certificate, of which (except for the holder of an Engineer Class 1, Engineer Class 2 or Engineer Watchkeeper grade of certificate of the other kind) at least 16 weeks was on a vessel using propulsion of the kind to which the certificate relates; and
 - (ii) documented in an approved Training Record Book;
- (c) the engineer training program short courses;
- (d) holding a certificate of proficiency in survival craft and rescue boats other than fast rescue boats (that complies with STCW Code section A-VI/2 paragraphs 1 to 4);
- (e) holding a certificate of medical fitness;
- (f) passing a final assessment

A **trainee engineer program** consists of the following, of which the combined program of workshop skills and qualifying seagoing service must be of at least 12 months duration:

- (a) an approved training course that:
 - (i) complies with STCW Code section A-III/1; and
 - (ii) either:
 - (A) if the person holds a **workshop skills equivalent qualification** — does not include a program of workshop skills training; or
 - (B) if the person holds a **qualification that is not workshop skills equivalent** — includes a program of workshop skills training, as determined by the seafarer training organisation providing the course taking into account any relevant education, skills or practical experience of the person, in the following competencies mentioned in STCW Code Table A-III/1 column 1:
 - (I) maintenance and repair of electrical and electronic equipment;

Grade of certificate**Eligibility requirements**

- (II) use of appropriate hand tools, machine tools and measuring instruments for fabrication and repair on board;
 - (III) maintenance and repair of shipboard machinery and equipment;
- (b) qualifying seagoing service that is:
- (i) of at least 36 weeks on vessels ≥ 750 kW propulsion power, performing engineer watchkeeper duties or functions in an engine room and under the supervision of a person holding an Engineer Watchkeeper certificate, an Engineer Class 1 certificate or an Engineer Class 2 certificate, of which (except for the holder of an Engineer Class 1, Engineer Class 2 or Engineer Watchkeeper grade of certificate of the other kind) at least 16 weeks was on a vessel using propulsion of the kind to which the certificate relates; and
 - (ii) documented in an approved Training Record Book;
- (c) the engineer training program short courses;
- (d) holding a certificate of proficiency in survival craft and rescue boats other than fast rescue boats (that complies with STCW Code section A-VI/2 paragraphs 1 to 4);
- (e) holding a certificate of medical fitness;
- (f) passing a final assessment

An **engineering experience training program**, for a person with a State unrestricted Engineer Class 3 certificate of competency or an Engineer Class 3 NC certificate of competency, consists of the following, of which the combined program of workshop skills and qualifying seagoing service must be of at least 12 months duration:

- (a) an approved training course that:
- (i) complies with STCW Code section A-III/1; and
 - (ii) includes a program of workshop skills training, as determined by the seafarer training organisation providing the course taking into account any relevant education, skills or practical experience of the person, in the following competencies specified in STCW Code Table A-III/1 column 1:
 - (A) maintenance and repair of electrical and electronic equipment;
 - (B) use of appropriate hand tools, machine tools and measuring instruments for fabrication and repair on board;
 - (C) maintenance and repair of shipboard machinery and

Grade of certificate	Eligibility requirements
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equipment;

- (b) qualifying seagoing service that is:
 - (i) of at least 26 weeks while holding a State unrestricted Engineer Class 3 certificate of competency or an Engineer Class 3 NC certificate of competency on vessels ≥ 750 kW propulsion power, of which (except for the holder of an Engineer Class 1, Engineer Class 2 or Engineer Watchkeeper grade of certificate of the other kind) at least 16 weeks was on a vessel using propulsion of the kind to which the certificate relates; and
 - (ii) documented in an approved Training Record Book;
- (c) the engineer training program short courses;
- (d) holding a certificate of proficiency in survival craft and rescue boats other than fast rescue boats (that complies with STCW Code section A-VI/2 paragraphs 1 to 4);
- (e) holding a certificate of medical fitness;
- (f) passing a final assessment

For endorsement as Second Engineer (<3000 kW), the holder of the certificate must:

- (a) have at least 12 months documented qualifying seagoing service in vessels ≥ 750 kW propulsion power; and
- (b) have completed an approved program of study that meets the standards specified in STCW Code section A-III/3

For endorsement as Chief Engineer NC (<3000 kW), the holder of the certificate must:

- (a) have at least 24 months qualifying seagoing service on vessels ≥ 375 kW propulsion power of which at least 12 months was while holding an endorsement as Second Engineer (<3000 kW), a Marine Engine Driver Grade 1 NC certificate of competency or an unrestricted Marine Engine Driver Grade 1 certificate of competency issued by a State before 1 July 2013; and

Note For information about NC certificates — see note for Engineer Watchkeeper grades of certificates.

- (b) have completed an approved program of study that meets the standards specified in STCW Code section A-III/3

Engineer Class 2
(Motor)

Person must:

Engineer Class 2
(Steam)

- (a) hold or have held any of the following certificates:
 - (i) an Engineer Watchkeeper certificate of competency;
 - (ii) a foreign certificate AMSA considers to be at least equivalent to an Engineer Watchkeeper certificate of

Engineer Class 2

Grade of certificate	Eligibility requirements
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(Steam and Motor)

competency;

Note For the definition of *foreign certificate* — see section 4.

(iii) an Engineer Class 3 NC of competency;

(iv) an unrestricted Engineer Class 3 certificate of competency issued by a State before 1 July 2013; and

Note For information about NC certificates — see note for Engineer Watchkeeper grades of certificates.

(b) have completed the following documented qualifying seagoing service:

(i) if holding a certificate mentioned in subparagraph (a)(i) or (ii) — at least 12 months qualifying seagoing service on vessels ≥ 750 kW propulsion power while holding an Engineer Watchkeeper certificate or its equivalent of which at least 9 months was on vessels using propulsion of the kind to which the certificate relates; or

(ii) if holding a certificate mentioned in subparagraph (a)(iii) or (iv) — at least 24 months qualifying seagoing service on vessels ≥ 750 kW propulsion power while holding the certificate of competency, of which at least 9 months was on vessels using propulsion of the kind to which the certificate relates; or

(iii) qualifying seagoing service that is a combination of the kinds of seagoing service mentioned in subparagraphs (i) and (ii) that AMSA considers equivalent to the qualifying seagoing service mentioned in subparagraph (i) or (ii); and

(c) have completed an approved program of study appropriate for the certificate that meets the standards specified in STCW Code sections A-III/1 and A-III/2 and includes the following:

(i) training in advanced fire fighting (that complies with STCW Code A-VI/3);

(ii) training in medical first aid (that complies with STCW Code section A-VI/4 paragraphs 1 to 3);

(iii) security awareness training (that complies with STCW Code section A-VI/6 paragraph 4); and

(d) if holding only the certificate mentioned in subparagraph (a)(iii) or (a)(iv) — have completed the engineer training program short courses; and

(e) hold a certificate of proficiency in survival craft and rescue boats other than fast rescue boats (that complies with STCW Code section A-VI/2 paragraphs 1 to 4); and

Grade of certificate	Eligibility requirements
	<ul style="list-style-type: none"> (f) hold a certificate of medical fitness; and (g) have passed a final assessment
Engineer Class 1 (Motor)	<p>Person must:</p> <ul style="list-style-type: none"> (a) hold or have held any of the following certificates: <ul style="list-style-type: none"> (i) an Engineer Class 2 certificate; (ii) a foreign certificate AMSA considers to be at least equivalent to an Engineer Class 2 certificate; and <p style="margin-left: 40px;"><i>Note</i> For the definition of <i>foreign certificate</i> — see section 4.</p>
Engineer Class 1 (Steam)	<ul style="list-style-type: none"> (b) have completed the following documented qualifying seagoing service: <ul style="list-style-type: none"> (i) qualifying seagoing service that is: <ul style="list-style-type: none"> (A) at least 36 months in charge of an engine room watch on vessels ≥ 750 kW propulsion power while holding either an Engineer Watchkeeper or Engineer Class 2 certificate of competency, of which at least 12 months was served on vessels ≥ 3000 kW using propulsion of the kind to which the certificate relates; and (B) at least 12 months while holding a certificate of competency as Engineer Class 2; or (ii) at least 24 months in charge of an engine room watch on vessels ≥ 750 kW propulsion power of which at least 12 months was served as first engineer on vessels ≥ 3000 kW propulsion power using propulsion of the kind to which the certificate relates while holding an Engineer Class 2 certificate of competency; or (iii) at least 42 months in charge of an engine room watch on vessels ≥ 750 kW propulsion power of which at least 18 months was served on vessels ≥ 3000 kW propulsion power using propulsion of the kind to which the certificate relates while holding an Engineer Class 2 certificate of competency and at least 24 months was served while holding an Engineer Class 3 NC certificate of competency or an unrestricted Engineer Class 3 certificate of competency issued by a State before 1 July 2013; or <p style="margin-left: 40px;"><i>Note</i> For information about NC certificates — see note for Engineer Watchkeeper grades of certificates.</p> (iv) qualifying seagoing service that is a combination of the kinds of seagoing service mentioned in subparagraphs (i) and (iii) that AMSA considers equivalent to the qualifying seagoing service mentioned in subparagraph (i) or (iii); and
Engineer Class 1 (Steam and Motor)	<ul style="list-style-type: none"> (c) have completed an approved program of study

Grade of certificate**Eligibility requirements**

appropriate for the certificate that meets the standards specified in STCW Code sections A-III/1 and A-III/2 and includes the following:

- (i) training in advanced fire fighting (STCW Code A-VI/3);
 - (ii) training in medical first aid (STCW Code A-VI/4 paragraphs 1 to 3);
 - (iii) security awareness training (that complies with STCW Code section A-VI/6 paragraph 4); and
 - (d) hold a certificate of proficiency in survival craft and rescue boats other than fast rescue boats (STCW Code section A-VI/2 paragraphs 1 to 4); and
 - (e) hold a certificate of medical fitness; and
 - (f) have passed a final assessment
-

[14] Schedule 3, heading

substitute

Schedule 3 Qualifying seagoing service — general requirements

(section 10)

[15] Schedule 3, clause 3.1

substitute

3.1 Service must have been performed as:

- (a) an engineer, trainee engineer or engineer cadet, or in an equivalent capacity regularly engaged in engine-room watchkeeping, which may include service on call in periodically unattended machinery spaces on vessels with a propulsion power of ≥ 750 kW; or
- (b) an electro-technical officer engaged in electro-technical officer duties or functions on vessels with an electrical generation capacity of ≥ 750 kW.

[16] Schedule 4, heading

substitute

Schedule 4 Requirements for revalidation of certificates

(paragraph 11(b))

[17] Schedule 4, paragraphs 4.1(b) and (d)

omit

12 months

insert

5 years

Note

1. All legislative instruments and compilations of legislative instruments are registered on the Federal Register of Legislation under the *Legislation Act 2003*. See <https://www.legislation.gov.au>.