



SHIP SAFETY BULLETIN

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Subject: Update on how to meet STCW 2010 Manila Convention Requirements for Officers and Ratings of the Engine Department

Purpose

This bulletin adds information to the Ship Safety Bulletin #09/2015. It explains how **officers and seafarers of the engine department** can comply with the new requirements of the *International Convention on Standards of Training, Certification, and Watchkeeping for Seafarers, as amended by the 2010 Manila Conference (STCW 2010 Manila)* after December 31, 2016.

❖ **Guidance for Master, Deck Officers and Deck Ratings is published in bulletin #12/2016.**

Scope

This bulletin details guidelines on the:

- status on the validity of Certificates of Competency (CoC) issued under the current MPR (2007);
- conditions to obtain a CoC that meets the *STCW Manila 2010* (CoC-STCW 2010) requirements;
- requirements to obtain a Certificate of Proficiency (CoP) for service onboard vessels using Steam for propulsion or with High Voltage (1000v) systems;
- current status of the Passenger and RoRo Passenger vessels' personnel certification; and
- requirements for Marine Emergency Duties (MED) refresher training.

Keywords:

1. STCW 2010
2. Marine Personnel Regulations
3. CoC

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Application

The *STCW 2010 Manila* does **not** apply to fishing vessels. Officers and seafarers of the engine department working onboard fishing vessels are not required, at this time, to complete MED refresher training, unless they do not have enough sea service to meet the renewal requirements for their CoC, as set in section 107 of the *Marine Personnel Regulations* (MPR).

Background

The *STCW 2010 Manila* came into force on January 1, 2012. The Convention's transition period is scheduled to end on December 31, 2016. This means Canada, as a party to the *STCW 2010 Manila*, must fully comply with its requirements by January 1, 2017.

Transport Canada Marine Safety and Security (TCMSS) has submitted a number of amendments to modernize the current MPR. Until these amendments come into force, TCMSS has developed interim measures to achieve *STCW 2010 Manila* compliance.

Details of these interim measures are listed in the Annexes of this bulletin.

Status of Certificates of Competency issued under the current MPR (2007)

TCMSS considers the current holders of Canadian CoC as 1st, 2nd, 3rd, or 4th Class Engineer or ERR, who have maintained their competency as set out in section 107 of the current MPR, as meeting the requirements of the *STCW 2010* requirements.

Such CoCs shall be renewed, **before their expiry date**, as set out in section 107 of the MPR, and taking into consideration the information published in Ship Safety Bulletin #09/2015.

Conditions to obtain a Certificate of Competency that meets the requirements of the STCW 2010

After December 31, 2016:

- A seafarer who wishes to obtain a CoC that meets *STCW 2010* ("CoC-*STCW 2010*") requirements must meet the respective conditions set out in Annexes 1 to 4 of this bulletin.
- Holders of a training certificate, for an approved engineering education and training program issued for a program that started before 2008, who have not yet obtained a CoC, must fully comply with all *STCW 2010 Manila* requirements.

Requirements to obtain a Certificate of Proficiency for service on board vessels equipped with steam propulsion machinery or a high voltage system.

After December 31, 2016:

- A seafarer who wishes to obtain a CoP for service on board vessels equipped with Steam propulsion machinery or vessels equipped with High Voltage (1 000v) system must meet the respective conditions set out in Annex 4 of this bulletin.

Requirements to obtain a Passenger Vessel Management (PSM) or a Specialized Passenger Safety Management – RoRo Vessels (PSM-RoRo)

Contrary to information in Ship Safety Bulletin #09/2015, the current MPR regime for the certification of seafarers on passenger vessels will continue to apply after December 31, 2016, and until further notice.

TCMSS will continue to:

- require the *Passenger Vessel Management (PSM)* and *Specialized Passenger Safety Management – RoRo Vessels (PSM-RoRo)* CoC and endorsement, under sections 229 and 230 of the current MPR; and
- issue them under sections 109, 157 and 158 of the current MPR.

MED Refresher Training Requirements

At this time, officers and seafarers of the engine department are not required, even after December 31, 2016, to take *Marine Emergency Duties (MED)* refresher training, or to obtain a CoP for this training, when sailing on a vessel making a:

- *Voyage in Sheltered waters;*
- *Near Coastal, Class 2 voyage;*
- *Near Coastal, Class 1 voyage on the Great Lakes;*
- *Voyage in the waters of the Gulf of St. Lawrence and Cabot Strait, up to 25 nm seaward of a straight line joining Cape Canso at 45° 18.36'N, 60° 56.28'W and Cape Pine at 46° 36.81'N, 53°32.5'W (see Annex 5) or*
- *Voyage in the areas of Queen Charlotte Sound and Hecate Strait, up to 25 nm seaward of a straight line joining Winifred Island at 50° 39' 40" N, 128° 22' 00" W, and Kunghit Island at 51° 56' 37" N, 131° 01' 52" W. (see Annex 6)*

Within these waters, the current MPR regime remains in force.

After December 31, 2016, the *STCW 2010 Manila* requires seafarers assigned on the muster list to MED duties and all officers on board a vessel making a voyage outside of the limits listed above, to take refresher trainings every 5 years and to hold a CoP in the related MED duties.

As outlined in SSB #09/2015, a seafarer wishing to obtain a CoC-STCW 2010 after December 31, 2016, must hold the required MED CoPs.

The renewal of a CoC is independent of the validity of the CoP for MED, unless a person does not have the required sea service, as section 107 of the MPR.

Service Standards

Officers and seafarers of the engine department wishing to obtain a CoC-STCW 2010 should expect a service standard of up to 120 business days before receiving a plasticised “STCW 2010 CoC”.

Transport Canada encourages officers and seafarers of the engine department to inform the examiner, at the time of their application, of any urgency related to an eventual engagement on board a vessel making a voyage outside the limits of Near Coastal Class 1 voyage.

ANNEX 1

1.0 Requirements to obtain a CoC that meets the STCW 2010 (CoC-STCW 2010) (Engine Department)

1.1 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as “**Chief Engineer Officer (STCW)**” must meet the following:

1.1.1 In order to obtain a CoC as “*Chief Engineer Officer (STCW)*” a person must:

1. hold a certificate issued under the MPR attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency applies;
2. hold a CoC as *Second or Third or “Fourth Class Engineer (that meets the STCW Reg. III/1)”*, or those of “*Second Engineer Officer (STCW)*” or “*Officer in Charge of an Engineering Watch (STCW)*”; (see note 1 of *Annex 2*)
3. hold the following Certificates of Proficiency: (see RDIMS 10622741)
 - a. STCW Basic Safety;
 - b. Survival Craft and Rescue Boats other than Fast Rescue Boats;
 - c. STCW Advanced Fire Fighting; and
 - d. Marine Advanced First Aid;
4. provide proof of competency in:
 - a. Leadership and Managerial Skills; (see note 2 of *Annex 2*)
 - b. Maritime Law and Ship's Business; (see note 3 of *Annex 2*)
 - c. English Language Skills; (see note 4 of *Annex 2*) and
 - d. Ship Management Practices taught using Propulsion Plant Simulator, Level 2 (see note 6 of *Annex 2*)
5. demonstrate they have the competences listed in column 1 of Table A-III/2 of the STCW Code, using the methods for demonstrating those competences set out in Section 3.1 of *Annex 3*; and
6. while holding one of the CoCs enumerated in paragraph 2, and serving in the function of an officer in charge of an engineering watch, a second engineer officer or a chief engineer officer, the person has acquired at least **36 months** of sea service, on board vessels, other than a stationary MOU, that have a propulsion power of at least 750 kW, out of which a minimum of **9 months** were served on board vessels that have a propulsion power of at least 3000 kW. (See note 8 of *Annex 2*)

Rights and Privileges

1.1.2 A CoC as “*Chief Engineer Officer (STCW)*” grants the holder the same rights and privileges as those granted to a person holding a “*First Class Engineer (that meets the STCW Reg. III/2)*” issued under the current *MPR*.

ANNEX 1- Requirements to obtain a CoC that meets the STCW 2010 (CoC-STCW 2010) (Engine Department)

1.2 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as “**Chief Engineer Officer less than 6000 kW Power, Near Coastal Voyage**” must meet the following:

- 1.2.1 In order to obtain a CoC as “*Chief Engineer Officer less than 6000 kW Power, Near Coastal Voyage*” a person must:
1. hold a certificate issued under the *MPR* attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency applies;
 2. hold a CoC as “*Second Class Engineer*” or “*Second Engineer Officer (STCW)*” certificate; (see note 1 of *Annex 2*)
 3. hold the following Certificates of Proficiency: (see RDIMS 10622741)
 - a. STCW Basic Safety;
 - b. Survival Craft and Rescue Boats other than Fast Rescue Boats;
 - c. STCW Advanced Fire Fighting; and
 - d. Marine Advanced First Aid;
 4. provide proof of competency in:
 - a. Ship Management Practices taught using Propulsion Plant Simulator, Level 2 (see note 6 of *Annex 2*)
 5. demonstrate they have the competences listed in column 1 of Table A-III/2 of the *STCW Code*, using the methods for demonstrating those competences set out in Section 3.1, of *Annex 3*; and
 6. while holding one of the CoCs enumerated in paragraph 2, and serving in the function of a second engineer officer or a chief engineer officer the person has acquired at least **3 months** of sea service, on board vessels, other than a stationary MOU, that have a propulsion power of at least 3000 kW. (see note 9 of *Annex 2*)

Rights and Privileges

1.2.2 A CoC as “*Chief Engineer Officer less than 6000 kW Power, Near Coastal Voyage*” grants the holder the same rights and privileges as those granted to a person holding a “*Second Class Engineer*” (that meets the *STCW Reg. III/2*) with an endorsement for *Chief Engineer Officer on vessels of less than 6000 kW propulsion power, Near Coastal Voyage*, issued under the current *MPR*.

**ANNEX 1- Requirements to obtain a CoC that meets the STCW 2010 (CoC-STCW 2010)
(Engine Department)**

1.3 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as “**Chief Engineer Officer less than 3000 kW Power**” must meet the following:

1.3.1 In order to obtain a CoC as “*Chief Engineer Officer less than 3000 kW Power*” a person must:

1. hold a certificate issued under the *MPR* attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency applies;
2. hold CoC as *Third* or “*Fourth Class Engineer (that meets the STCW Reg. III/1)*” or “*Second Engineer Officer less than 3000 kW Power (STCW)*” (see note 1 of *Annex 2*)
3. hold the following Certificates of Proficiency: (see RDIMS 10622741)
 - a. STCW Basic Safety;
 - b. Survival Craft and Rescue Boats other than Fast Rescue Boats;
 - c. STCW Advanced Fire Fighting; and
 - d. Marine Advanced First Aid;
4. provide proof of competency in:
 - a. Leadership and Managerial Skills; (see note 2 of *Annex 2*)
 - b. Maritime Law and Ship’s Business; (see note 3 of *Annex 2*)
 - c. English Language Skills; (see note 4 of *Annex 2*) and
 - d. Ship Management Practices taught using Propulsion Plant Simulator, Level 2 (see note 6 of *Annex 2*)
5. demonstrate they have the competences listed in column 1 of Table A-III/2 of the STCW Code, using the methods for demonstrating those competences set out in Section 3.1 of *Annex 3*; and
6. while holding one of the CoCs enumerated in paragraph 2, the person has acquired at least **12 months** of sea service on board vessels, other than a stationary MOU, that have a propulsion power of at least 750 kW, while serving in the function of a second engineer officer or a chief engineer officer. (see note 10 of *Annex 2*)

Rights and Privileges

1.3.2 A CoC as “*Chief Engineer Officer less than 3000 kW Power*” grants the holder the same rights and privileges as those granted to a person holding a “*Third Class Engineer*” (*that meets the STCW Reg. III/3*) issued under the current *MPR*.

**ANNEX 1- Requirements to obtain a CoC that meets the STCW 2010 (CoC-STCW 2010)
(Engine Department)**

1.4 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as “**Second Engineer Officer (STCW)**” must meet the following:

1.4.1 In order to obtain a CoC as *Second Engineer Officer (STCW)* a person must:

1. hold a certificate issued under the *MPR* attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency applies;
2. hold a CoC as *Second, or Third, or “Fourth Class Engineer (that meets the STCW Reg. III/1)”*, or “*Officer in Charge of an Engineering Watch*” (*STCW*) certificate of competency; (see note 1 of *Annex 2*)
3. hold the following Certificates of Proficiency: (see RDIMS 10622741)
 - o STCW Basic Safety;
 - o Survival Craft and Rescue Boats other than Fast Rescue Boats;
 - o STCW Advanced Fire Fighting; and
 - o Marine Advanced First Aid;
4. provide proof of competency in:
 - a. Leadership and Managerial Skills; (see note 2 of *Annex 2*)
 - b. Maritime Law and Ship’s Business; (see note 3 of *Annex 2*)
 - c. English Language Skills; (see note 4 *Annex 2*) and
 - d. Ship Management Practices taught using Propulsion Plant Simulator, Level 2; (see note 6 of *Annex 2*)
5. demonstrate they have the competences listed in column 1 of Table A-III/2 of the *STCW Code*, using the methods for demonstrating those competences set out in Section 3.1 of *Annex 3*; and
6. while holding one of the CoCs enumerated in paragraph 2, the person has acquired at least **12 months** of sea service on board vessels, other than stationary MOUs, that have a propulsion power of at least 750 kW, while serving in the function of an officer in charge of an engineering watch, a second engineer or a chief engineer, out of which at least **3 months** were served on vessels that have a propulsion power of at least 3000 kW. (see note 8 of *Annex 2*)

Rights and Privileges

1.4.2 A CoC as “*Second Engineer Officer (STCW)*” grants the holder the same rights and privileges as those granted to a person holding a “*Second-class Engineer*” (*that meets the STCW Reg. III/2*) issued under the current *MPR*.

ANNEX 1- Requirements to obtain a CoC that meets the STCW 2010 (CoC-STCW 2010) (Engine Department)

1.5 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as “**Second Engineer Officer less than 3000 kW Propulsion Power**” must meet the following:

- 1.5.1 In order to obtain a CoC as “*Second Engineer Officer less than 3000 kW Propulsion Power*” a person must:
1. hold a certificate issued under the *MPR* attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency applies;
 2. hold the following Certificates of Proficiency: (see RDIMS 10622741)
 - a. STCW Basic Safety;
 - b. Survival Craft and Rescue Boats other than Fast Rescue Boats;
 - c. STCW Advanced Fire Fighting; and
 - d. Marine Advanced First Aid;
 3. provide proof of competency in:
 - a. Leadership and Managerial Skills; (see note 2 of *Annex 2*)
 - b. Maritime Law and Ship's Business; (see note 3 of *Annex 2*)
 - c. English Language Skills; (see note 4 of *Annex 2*)
 - d. Practical skills for marine engineers, and
 - a. Ship Management Practices taught using Propulsion Plant Simulator Level 2 (see note 6 of *Annex 2*)
 4. demonstrate they have the competences listed in column 1 of Table A-III/2 of the *STCW Code*, using the methods for demonstrating those competences set out in Section 3.2 of *Annex 3*; and
 5. have acquired the following sea service on board a vessel, other than a stationary MOU, that has a propulsion power of at least 750 kW: (see notes 11 of *Annex 2*)
 - a. While holding an engineer CoC that meets Reg. III/1 of *STCW Convention*, at least 6 months while serving in the function of an engineer in charge of the engineering watch, a second engineer officer or a chief engineer officer; or
 - b. At least 12 months while serving as an assistant engineer officer.

Rights and Privileges

1.5.2 A CoC as “*Second Engineer Officer less than 3000 kW Propulsion Power*” grants the holder the same rights and privileges as those granted to a person holding a “*Fourth Class Engineer*,” with a *Second Engineer Endorsement (that meets the STCW Reg. III/3)* issued under the current *MPR*.

ANNEX 1- Requirements to obtain a CoC that meets the STCW 2010 (CoC-STCW 2010) (Engine Department)

1.6 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as “**Officer in Charge of an Engineering Watch (STCW)**” must meet the following:

1.6.1 In order to obtain a CoC as “*Officer in Charge of an Engineering Watch (STCW)*” a person must:

1. Be at least 18 years of age;
2. hold a certificate issued under the *MPR* attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency applies;
3. hold the following Certificates of Proficiency (see RDIMS 10622741):
 - a. STCW Basic Safety;
 - b. Survival Craft and Rescue Boats other than Fast Rescue Boats;
 - c. STCW Advanced Fire Fighting; and
 - d. Marine Advanced First Aid;
4. provide proof of competency in:
 - a. Leadership and Teamworking Skills; (see note 2 of *Annex 2*)
 - b. Maritime Law and Ship’s Business; (see note 3 of *Annex 2*)
 - c. English Language Skills; (see note 4 *Annex 2*)
 - d. Practical Skills for Marine Engineer (see note 5 *Annex 2*) and
 - e. Ship watchkeeping practices using a Propulsion Plant Simulator, Level 1; (see note 7 of *Annex 2*)
5. demonstrate they have the competences listed in column 1 of Table A-III/1 of the *STCW Code*, using the methods for demonstrating those competences set out in Section 3.3 of *Annex 3*; and
6. have acquired one of the following sea service on board vessels, other than a stationary MOU, that have a propulsion power of at least 750 kW; (see note 12 of *Annex 2*)
 - a. at least **6 months** carrying out the functions of an assistant engineer officer as part of an engineering watch, under the supervision of an engineer officer, if the person has completed an Engineer Officer Education and Training (EOET) Program approved by the Minister as conforming to TP 8911, or
 - b. at least **30 months** carrying out functions related to marine engineering at the support level, as described in column 1 of Table A-III/5 of the *STCW Code*, if the person has completed a Practical Skills for Marine Engineers (PSME-S) program, approved by the Minister as conforming to TP 13720, out of which at least **6 months** must be served while forming part of an engineering watch under the supervision of an engineer officer.

Rights and Privileges

1.6.2 A CoC as “*Officer in Charge of an Engineering Watch (STCW)*” grants the holder the same rights and privileges as those granted to a person holding a “*Fourth Class Engineer*” (*that meets the STCW Reg. III/1*) issued under the current *MPR*.

ANNEX 1- Requirements to obtain a CoC that meet the *STCW 2010* (CoC-STCW 2010) (Engine Department)

1.7 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as “***Electro-Technical Officer***” must meet the following:

1.7.1 In order to obtain a CoC as “*Electro-Technical Officer (STCW)*” a person must:

1. be at least 18 years of age;
2. hold a certificate issued under the *MPR* attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency relates;
3. hold the following Certificates of Proficiency: (see RDIMS 10622741)
 - a. STCW Basic Safety;
 - b. Survival Craft and Rescue Boats other than Fast Rescue Boats;
 - c. STCW Advanced Fire Fighting; and
 - d. Marine Advanced First Aid;
4. provide proof of competency in:
 - a. Leadership and Teamworking Skills; (see note 2 of *Annex 2*)
 - b. Maritime Law and Ship’s Business; (see note 3 of *Annex 2*) and
 - c. English Language Skills; (see note 4 of *Annex 2*)
7. demonstrate the competences listed in column 1 of Table A-III/6 of the *STCW Code*, using the methods for demonstrating those competences set out in Section 3.4 of *Annex 3*; and
5. have acquired **12 months** relevant sea service in the 60 months preceding January 1, 2017, on board vessels, other than a stationary MOU, that have a propulsion power of at least 750 kW carrying out functions, at the support level as described in column 1 of table A-III/7 of the *STCW Code* (see note 13 of *Annex 2*).

Rights and Privileges

1.7.2 A CoC as “*Electro-Technical Officer*” grants the holder the privileges to occupy a position of an “*Electro-Technical Officer*” on board vessels that require such position.

ANNEX 1- Requirements to obtain a CoC that meet the *STCW 2010* (CoC-STCW 2010) (Engine Department)

1.8 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as "***Able Seafarer Engine***" must meet the following:

1.8.1 In order to obtain a CoC as "***Able Seafarer Engine (STCW)***" a person must:

1. hold a certificate issued under the *MPR* attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency applies;
2. hold CoC as "***Engine Room Rating***" (*that meets STCW Reg. III/4*); (see note 1 of *Annex 2*)
3. hold an STCW Basic Safety Certificates of Proficiency; (see RDIMS 10622741)
4. demonstrate they have the competences listed in column 1 of Table A-III/5 of the STCW Code, using the methods for demonstrating those competences set out in Section 3.5 of *Annex 3*; and
5. have acquired either of the following sea service on board vessels, other than a stationary MOU, that have a propulsion power of at least 750 kW:
 - a. at least **6 months**, carrying out functions related to engine department operations, under the supervision of an engineer officer, if the person has completed a training program that the Minister has accept; or
 - b. at least **12 months** carrying out functions related to marine engineering at the support level, under the supervision of an engineer officer, as described in column 1 of Table A-III/4 of the STCW Code.

Rights and Privileges

1.8.2 A CoC as "***Able Seafarer Engine***" grants the holder the privileges to occupy a position of "***Able Seafarer Engine***" onboard vessels that require such position.

ANNEX 1- Requirements to obtain a CoC that meet the *STCW 2010* (CoC-STCW 2010) (Engine Department)

1.9 A person who chooses to comply with the *STCW 2010* and wishes to obtain a CoC as “***Electro-Technical Rating***” must meet the following:

1.9.1 In order to obtain a CoC as “*Electro-technical Rating (STCW)*” a person must:

1. Be at least 18 years of age
2. hold a certificate issued under the *MPR* attesting to their medical fitness to perform the duties and undertake the voyages to which the certificate of competency applies;
3. hold an *STCW* Basic Safety Certificates of Proficiency (see RDIMS 10622741);
4. demonstrate they have the competences listed in column 1 of Table A-III/7 of the *STCW* Code, using the methods for demonstrating those competences set out in Section 3.6 of *Annex 3*; and
5. have acquired one of the following sea service on board vessels, other than a stationary MOU, that have a propulsion power of at least 750 kW; (see note 12 of *Annex 2*)
 - a. at least **3 months**, carrying out functions, at the support level, under the supervision of an officer, as described in column 1 of table A-III/7 of the *STCW* Code if the person holds qualifications that meet the technical competences in that table;
 - b. at least **6 months**, carrying out functions, at the support level, under the supervision of an officer, as described in column 1 of table A-III/7 of the *STCW* Code, if the person has completed an approved *Electro-Technical Rating* training program recognized by the Minister; or
 - c. at least **12 months**, within the last 60 months, carrying out functions, under the supervision of an officer, in a relevant capacity as described in column 1 of table A-III/7 of the *STCW* Code.

Rights and Privileges

1.9.2 A CoC as “*Electro-Technical Rating*” grants the holder the privileges to occupy a position of an “*Electro-Technical Rating*” onboard vessels that require such position.

ANNEX 2 – Notes to Requirements to obtain a STCW 2010 (CoC-STCW 2010) (Engine Department)

Note 1. CoC

- The CoC presented must have been issued under the MPR.
 - *It should be understood that the current policy addresses a transition period to implement the STCW 2010, within the limit of the regulatory requirements of the MPR. If this transition period is to be extended, consideration will be given to allow holders of CoCs, issued in compliance with the STCW 2010, to upgrade their CoCs.*

Note 2. Leadership and Managerial Skills or Leadership and Teamworking Skills

- Acceptable proofs of competency are:
 - a training certificate issued by one of the Recognized Institutions for completing an Engineer Officer Education and Training (EOET) Program approved by the Minister as conforming to TP 8911 or an approved Leadership course at the level sought, within the 5 years of the application date; or
 - while holding an engineer officer CoC, acquire the service set out in subsection 107(3) of the *MPR*, in the function of the certificate level sought, within the 5 years preceding the application date.

Note 3. Maritime Law and Ship's Business

- Acceptable proofs of competency are:
 - a training certificate issued by one of the Recognized Institutions for completing an Engineer Officer Education and Training (EOET) Program approved by the Minister as conforming to TP 8911 or an approved course in Maritime Law and Ship's Business; or
 - while holding an engineer officer CoC, having acquired the service set out in subsection 107(3) of the *MPR*, within the 5 years preceding the application date.

Note 4. English Language Skills

- Acceptable proofs of competency :
 - successful completion of a provincially approved Grade XI English Language course, or acceptable equivalent; or
 - acquired, while holding an engineer officer CoC, the service set out in subsection 107(3) of the *MPR*, within the 5 years preceding the application date.

Note 5. Practical Skills for Marine Engineers

- Acceptable proofs of competency are:
 - a training certificate issued by one of the Recognized Institutions for completing an approved PSME course within the 5 years preceding the application date; or
 - acquired, while holding an engineer officer CoC, the service set out in subsection 107(3) of the *MPR*, in the function of an engineer officer, within the 5 years preceding the application date.

ANNEX 2 – Notes to Requirements to obtain a STCW 2010 (CoC-STCW 2010) (Engine Department)

Note 6. Propulsion Plant Simulator - PPS 2 course

- Acceptable proofs of competency are:
 - a training certificate issued by one of the Recognized Institutions for completing an approved PPS2 course within the 5 years preceding the application date; or
 - while holding an engineer CoC, and serving in a managerial function (second or a chief engineer officer), acquire the service set out in subsection 107(3) of the *MPR* within the 5 years preceding the application date.

Note 7. Propulsion Plant Simulator - PPS 1 course

- Acceptable proofs of competency:
 - a training certificate issued by one of the Recognized Institutions for completing an approved PPS1 course within the 5 years preceding the application date; or
 - acquired, while holding an engineer officer CoC, the service set out in subsection 107(3) of the *MPR*, in the function of an engineer officer, within the 5 years preceding the application date.

Note 8. Sea Service Calculation - Chief Engineer Officer (STCW), Second Engineer Officer (STCW)

- Sea service must be acquired while holding, at least, a STCW Reg. III/1 CoC in the function of:
 - officer in charge of an engineering watch,
 - second engineer, or
 - chief engineer.

Note 9. Sea Service Calculation - Chief Engineer Officer less than 6000 kW Power, Near Coastal Voyage.

- Sea service must be acquired while holding at least, a STCW Reg. III/2 CoC in the function of:
 - second engineer, or
 - chief engineer.

Note 10. Sea Service Calculation - Chief Engineer Officer less than 3000 kW Power

- Sea service must be acquired while holding at least, a STCW Reg. III/3 CoC in the function of:
 - second engineer, or
 - chief engineer.

Note 11. Sea Service Calculation - Second Engineer Officer less than 3000 kW Propulsion Power and Officer in Charge of an Engineering Watch

- Sea service must be acquired while performing duties equivalent to those described in column 1 of Table A-III/1 of the STCW Code;
- At least **6 of the 30 months** of sea service shall be acquired while performing engine room watchkeeping duties, as describe in the in column 1 of Table A-III/1 of Function “Marine engineering at the support level” of the STCW Code.

“Assistant engineer officer” means a person, registered in an approved Engineering Officer Education and Training Program (EOET), under training to become an engineer officer.

ANNEX 2 – Notes to Requirements to obtain a STCW 2010 (CoC-STCW 2010) (Engine Department)

Note 12. Relevant sea service as Electrician

- Service in a position, Electrical Officer, or service related to monitoring, operation or repair of electrical power systems ;
- Sea service acquired while performing duties equivalent to those described in column 1 of Table A-III/7 of the STCW Code
- This experience must be documented in a letter from an employer attesting to the length and type of service, and the applicant's duties and responsibilities.

ANNEX 3 – Methods to Demonstrate Competency for STCW 2010 CoC (Engine)

3.1 Chief Engineer Officer (STCW), Chief Engineer Officer less than 6000 kW Power, Near Coastal Voyage, Chief Engineer Officer less than 3000 kW Power and Second Engineer Officer (STCW)

3.1.1 The person demonstrates competency by:

1. holding a valid CoC, issued under the *MPR*, that meets the STCW Reg. III/2 of the STCW Convention;
2. providing a training certificate issued for a program that started after 2008, by one of the RI for completing an approved Engineering Officer Education and Training Program (EOET), in accordance with EOET Program “Chief and Second Engineer” of TP 8911; or
3. providing documentary evidence for passing approved examinations in the following subject areas at the management level:
 - a. Engineering Knowledge;
 - b. Ship Construction, Stability and Propulsion;
 - c. Electro-technology and Automation;
 - d. Applied Mechanics;
 - e. Applied Thermodynamics; and
 - f. Maritime Law and Ship’s Business.

○ *Examinations may address individual or multiple subject areas.*

ANNEX 3 – Methods to Demonstrate Competency for STCW 2010 CoC (Engine)

3.2 Second Engineer Officer less than 3000 kW Power

3.2.1 The person demonstrates competency by:

1. holding at the a valid CoC, issued under the *MPR*, that meets the STCW Reg. III/3 of the STCW Convention;
2. providing a training certificate issued for a program that started after 2008, by one of the RI for completing an approved Engineering Officer Education and Training Program (EOET), in accordance with EOET Program “Chief and Second Engineer” of TP 8911; or
3. providing documentary evidence for passing approved examinations in the following subject areas at the management level:
 - a. Engineering Knowledge;
 - b. Ship Construction, Stability and Propulsion;
 - c. Electro-Technology and Automation;
 - d. Applied Mechanics;
 - e. Applied Thermodynamics; and
 - f. Maritime Law and Ship’s Business.

○ *Examinations may address individual or multiple subject areas.*

ANNEX 3 – Methods to Demonstrate Competency for STCW 2010 CoC (Engine)

3.3 Officer in Charge of an Engineering Watch (STCW)

3.3.1 The person demonstrates competency by:

1. holding a valid CoC, issued under the *MPR*, that meets the STCW Reg. III/1 of the STCW Convention;
2. providing a training certificate issued for a program that started after 2008, by one of the RI for completing an approved Engineering Officer Education and Training Program (EOET), in accordance with EOET Program “Officer in Charge of an Engineering Watch” of TP 8911; or
3. providing documentary evidence for passing approved examinations in the following subject areas at the operational level:
 - a. Engineering Knowledge including Chemistry;
 - b. Ship Construction and Stability;
 - c. Electro-Technology and Automation;
 - d. Applied Mechanics and Mathematics;
 - e. Applied Thermodynamics; and
 - f. Ship Operation, watchkeeping and practical skill.

○ *Examinations may address individual or multiple subject areas.*

ANNEX 3 – Methods to Demonstrate Competency for STCW 2010 CoC (Engine)

3.4 Electro-Technical Officer

3.4.1 The person demonstrates competency by:

1. Providing documentary evidence such as;
 - a. Holding a valid CoC, issue by a maritime administration, recognized as meeting the requirement of Reg. III/6 of the STCW Convention;
 - b. a training certificate, or a diploma, from a regulated institution, that demonstrates an equivalent achievement of the competences listed in column 1 of Table A-III/6 of the STCW Code;
 - c. a training certificate, or a diploma, from a provincially approved electrical apprenticeship or trade qualification, equivalent to the competences requirement, listed in column 1 of Table A-III/6 of the STCW Code; or
 - d. a diploma or degree in electrical engineering technology, marine electrician, or instrumentation and controls technology, from a regulated institution, that is equivalent to the requirements of Reg. III/6 of the STCW Code; or
 2. Providing documentary evidence for passing approved examinations in the following subject areas:
 - a. Safe use, operation monitoring, maintenance and repair of electrical electronic and control equipment, including control systems of main propulsion and auxiliary machinery, cargo-handling, deck machinery and hotel equipment;
 - b. Safety requirements for working on shipboard electrical system, including operation of generators and distribution system, detection of electrical malfunction and measures to prevent damage;
 - c. Operation of shipboard computers and computer networks;
 - d. Knowledge of the principles and maintenance procedures of navigation equipment, including internal communication system;
 - e. Practical knowledge of testing, maintenance, faults finding and repair operations; and
 - f. Occupational health and safety procedures.
- *Examinations may address individual or multiple subject areas.*

ANNEX 3 – Methods to Demonstrate Competency for STCW 2010 CoC (Engine)

3.5 Able Seafarer Engine

3.5.1 The person must demonstrate the competences listed in column 1 of Table A-III/5 of the STCW Code by:

1. Providing documentary evidence such as;
 - a. a valid CoC, issue by a maritime administration and recognized as meeting the requirement of Reg. III/5;
 - b. a training certificate or a diploma from a regulated institution that address the competences listed in column 1 of Table A-III/5 of the STCW Code; or
 - c. a document evidencing achievement of each knowledge, understanding and proficiency listed in column 2 of Table A-III/5 of the STCW Code, and the methods used to demonstrate these competences.

ANNEX 3 – Methods to Demonstrate Competency for STCW 2010 CoC (Engine)

3.6 “Electro-Technical Rating”

3.6.1 The person must demonstrate the competences listed in column 1 of Table A-III/7 of the STCW Code by:

1. Providing documentary evidence such as;
 - a. a valid CoC, issue by a maritime administration and recognized as meeting the requirement of Reg. III/7;
 - b. a training certificate or a diploma from a regulated institution that address the competences listed in column 1 of Table A-III/7 of the STCW Code; or
 - c. a document evidencing achievement of each knowledge, understanding and proficiency listed in column 2 of Table A-III/7 of the STCW Code, and the methods used to demonstrate these competences.

ANNEX 4 – Requirements to obtain a CoP for Service on board specific types of vessels

4.1 Service as engineer officer on board a vessel using steam to operate the main propulsion machinery – Operational or Management Level

4.1.1 In order to obtain a CoP as *Service as engineer officer on board a vessel using steam to operate the main propulsion machinery – Operational or Management Level* a person must:

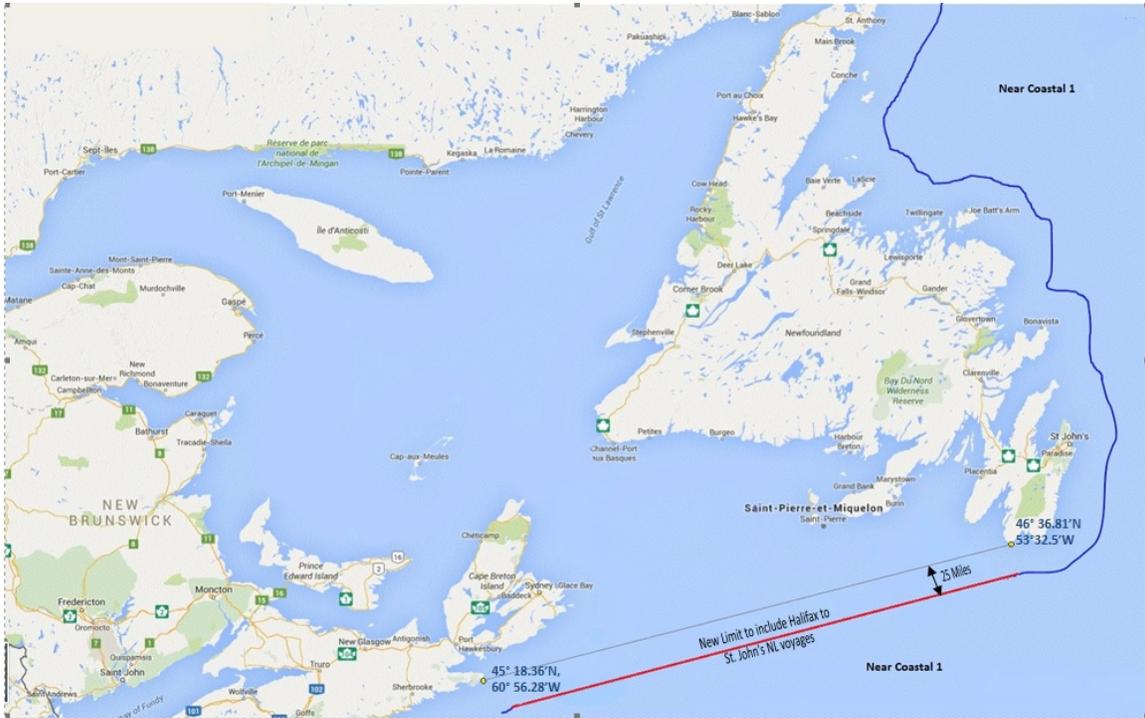
- 1 hold a valid engineer CoC, of the steamship category, issued under the *MPR or the TCMSS Policy*; or
- 2 either, provide a training certificate issued by one of the Recognised Institutions for completing an approved Engineering Officer Education and Training Program (EOET), that addresses steam propulsion knowledge:
 - a. For endorsement at the management level, an Engineering Officer Education and Training Program (EOET) in accordance with EOET Program “Chief and Second Engineer Officer” of TP 8911; or
 - b. For endorsement at the operational level, an Engineering Officer Education and Training Program (EOET) in accordance with EOET Program “Officer in Charge of an Engineering Watch” of TP 8911; or
- 3 Provide documentary evidence for passing approved examinations in the following subject areas:
 - a. Design features and safety mechanisms of high pressure steam boilers, marine steam turbines, steam engines, construction of high pressure steam boilers, and other components of steam machinery;
 - b. Propulsive characteristics of steam turbines, and other steam propulsion engines, including speed, output and fuel consumption, preparation, operation, fault detection and necessary measures to prevent damage to high pressure steam boilers and other components of steam machinery;
 - c. Heat cycle thermal efficiency and heat balance of high pressure steam boilers, steam turbines and other steam propulsion engines;
 - d. Functions and mechanism of automatic control for auxiliary machinery related to high pressure steam boilers;
 - e. Design features and system configurations of automatic control equipment and safety devices for high pressure steam boilers; and
 - f. Operation, safety and emergency procedures related to high pressure steam boilers, and other components of steam machinery.
- 4 *Examinations may address individual or multiple subject areas.*

ANNEX 4 – Requirements to obtain a CoP for service on board specific types of vessels

4.2 Service as engineer officer on board a vessel using High Voltage systems in excess of 1000 volt

- 4.2.1 In order to obtain a CoP as *Service as engineer officer on board a vessel using High Voltage systems in excess of 1000 volt* a person must:
- a. hold a CoC or CoP, issue by a maritime administration, recognized as meeting the High Voltage requirements of Reg. A-III/1 and A-III/2 of the STCW Code;
 - b. provide training certificate or a diploma from a regulated institution that addresses the competences related to “High Voltage” listed in column 1 of Tables A-III/1 and A- III/2 of the STCW Code;
 - c. provide a document from a provincially approved electrical apprenticeship or trade qualification that addresses the competences related to “High Voltage” listed in column 1 of Tables A-III/1 and A-III/2 of the STCW Code; or
 - d. provide a diploma or degree in electrical engineering technology, marine electrician qualification or instrumentation and controls technology that addresses the competences related to “High Voltage” listed in column 1 of Tables A-III/1 and A-III/2 of the STCW Code.

ANNEX 5



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ANNEX 6



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