



2022 Marine Chemist Directory

**A Directory of NFPA Certificated Marine Chemists
Including Rules for the Certification and
Recertification of Marine Chemists**



National Fire Protection Association®

Executive Office, One Batterymarch Park, Quincy, MA 02169-7471

NFPA, Publisher of this Marine Chemists Directory, was organized in 1896 to promote the science and improve the methods of fire protection and fire prevention. It is a nonprofit, educational, voluntary-membership organization recognized internationally as a clearinghouse for information on fire prevention. It is also recognized internationally as an authoritative source for fire-loss experience.

Membership in NFPA is open to anyone interested in fire-loss reduction. Among the many membership benefits are a vote in the standards-making activities of the Association; copies of the bimonthly NFPA Journal; and copies of NFPA Update, issued bimonthly. For complete details on membership, write the Association, One Batterymarch Park, Quincy, MA 02169-7471 or call (617) 770-3000. NFPA's web site is at www.nfpa.org.

This Directory is updated quarterly and posted to the NFPA web site.

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2022 Marine Chemists Directory

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MARINE CHEMIST DIRECTORY 2022

FOREWORD

This is a directory listing all currently Certificated Marine Chemists as of the date of publication. The list is published annually by the National Fire Protection Association (NFPA). This directory also provides a listing of the Marine Field Service Advisory Committee, Marine Chemist Qualification Board and NFPA Technical Committee on Gas Hazards as organized at the time of publication. An electronic version of this directory which is periodically updated may be downloaded from the Certificated Marine Chemist (CMC) page on the NFPA website: <https://www.nfpa.org/Training-and-Events/Certification/Certification/Marine-chemists>.

Any questions regarding this directory should be brought to the attention of the Marine Field Service at NFPA at telephone number 617-984-7418 or by email to marine@nfpa.org.

Who is the NFPA Certificated Marine Chemist?

The United States Coast Guard and the Occupational Safety and Health Administration (OSHA) require that a Certificate issued by a Marine Chemist be obtained before hot work or fire producing operations can be carried out in certain spaces aboard a marine vessel. The appropriate U.S. Coast Guard Regulations are contained in 46 CFR 35.01-1(c) (1), 71.60-1(c) (1), 91.50-1(c) 109.573 (1), 115.710 (b) (1), 126.160 (c) (1), 140.665 (c) (1); 167.30-10(c) (1), 176.710 (b) (1), and 189.50-1(c) (1). The appropriate OSHA regulations are contained in 29 CFR 1915.14.

In complying with both the U.S. Coast Guard and OSHA regulations, the Marine Chemist applies the requirements contained in NFPA 306, *Standard for the Control of Gas Hazards on Vessels*. This standard describes the conditions that must exist aboard a marine vessel, shipyard or waterfront facility. A survey by the Marine Chemist ensures that these conditions are satisfied.

In addition, a Marine Chemist, by virtue of his or her training and continuous professional upgrading through the Certification program administered by the Marine Chemist Qualification Board, is able to perform similar evaluations where confined space entry or hot work is contemplated on a system that might contain residues of a flammable or combustible product. Such work, if occurring in a location other than a marine vessel, shipyard or waterfront facility would be outside the scope of NFPA 306.

The *Rules for the Certification and Recertification of Marine Chemists* are found in Appendix A of this directory. To get more information about the NFPA Certificated Marine Chemist Program or becoming a NFPA Certificated Marine Chemist, please contact the NFPA Marine Field Service.

MARINE CHEMIST DIRECTORY 2022

NFPA COMMITTEE PERSONNEL

Marine Field Service Advisory Committee

Lamar E. Labauve, Chairman

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American Petroleum Institute
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Donald Raffo

Marine Chemist Association
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James E. Tighe

American Waterways Operators
502 Pebbleshire Drive
Houston, Texas 77062

Edward F. Wilmot

135 Hamilton Road
Rockville Centre, NY 11570

Lawrence B. Russell*

National Fire Protection Association
Executive Secretary

**Non-voting Status*

Scope

This Committee is established to advise and assist the President of the Association in the administration of the Marine Field Service and to facilitate communication between the sponsoring elements of the maritime industry and the management of the Association. The Committee will consult with the President in the selection and appointment of staff personnel assigned to the Service, will provide advisory assistance to the President in its administration, and will receive periodic reports thereof.

MARINE CHEMIST DIRECTORY 2022

NFPA COMMITTEE PERSONNEL

Marine Chemist Qualification Board

Voting Members

Terry Guidry, Chairman
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HSEQ Operations at Southwest Shipyard, LP
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Channelview, TX 77530

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Huntington Ingalls Industries/Newport News Shipbuilding
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Brian A. Axelrad (Alternate to J Ward)
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Non-Voting Members

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*U.S. Department of Labor
Occupational Safety & Health Administration*
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(Term Indefinite)

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*U.S. Department of Homeland Security
Commandant (CG-113)
Office of Safety and Environmental Health*
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Washington DC 20593-7907
(Term Indefinite)

Lawrence B. Russell
National Fire Protection Association
Executive Secretary
1 Batterymarch Park
Quincy, MA 02169

Scope

Scope and Purpose (see Appendix B for complete Regulations). Appointed by the NFPA Board of Directors, the Marine Chemist Qualification Board (MCQB) shall:

1. Establish the Rules for the Certification and Recertification of Marine Chemists, which shall be adopted by the NFPA Board of Directors.
2. Act on applications for certification and recertification as a Marine Chemist or registration as a trainee.

3. Suspend, cancel, or revoke a certificate in accordance with the Rules.
4. Renew certificates based upon satisfactory compliance with the requirements of the Rules and the MCQB.

MARINE CHEMIST DIRECTORY 2022

NFPA COMMITTEE PERSONNEL

Technical Committee on Gas Hazards Principal Members

James R. Thornton, Chair

Newport News Shipbuilding
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Hampton, VA 23669

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American Petroleum Institute

Gregory G. Grondin, Principal

Downeast Laboratories Inc.
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Marine Chemist Association, Inc. Inland Section

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Philip Myers, Principal

PEMY Consulting LLC
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Carolyn Onye, Principal

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*General Dynamics, Electric Boat Corporation
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Kirby Inland Marine, LP
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American Waterways Operators

Dallas Smith, Principal

Liberian Registry
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Nicholas A. Woessner, Principal

National Grid
18 Oxford Road Norwood, MA 02062

MARINE CHEMIST DIRECTORY 2022

NFPA COMMITTEE PERSONNEL

Technical Committee on Gas Hazards Alternates & Non-voting Members

Bradley Achorn, Voting Alternate

American Bureau of Shipping (ABS)
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Plantation, FL 33324

John T. Bell, Voting Alternate

Marine Inspection Services Inc.
PO Box 1289
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Marine Chemist Association, Inc. Coastal Segment

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Atlantic Coast Marine Chemist
1423 Rolling Glen Drive #A
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Marine Chemist Association, Inc. Inland Segment

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Chamber of Shipping of America
9607 Crosspointe Drive
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James Fewell, Alternate

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American Petroleum Institute

Amy A. Wangdahl, Alternate

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Occupational Safety & Health Administration*
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John R. Ward, Jr., Alternate

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Shipbuilding*
4101 Washington Avenue
Newport News, VA 23607-2734

Lawrence Russell*, Staff Liaison

National Fire Protection Association
One Batterymarch Park
Quincy, MA 02169-7471

* Nonvoting Member

Scope

The Committee shall have primary responsibility for documents on the prevention of fire and explosion of flammable vapors in compartments or in spaces on board vessels and within shipyards and on the conditions that must exist in those compartments or spaces in order that workers can safely enter them and perform work.

MARINE CHEMIST DIRECTORY 2022

Certificated Marine Chemists (Alphabetical Order)

(In Alphabetical Order — Name, CMC No. and State)

A

**Albert, Robert V. — 690 — MA
**Axelrad, Brian A. — 691 — LA

B

Babin, Jason D. — 684 — LA
Bailey, August V., Jr. — 652 — LA
**Ball, Ryan W. — 709 — IL
**Beacham, Thomas L. — 635 — VA
Bell, John L. — 710 — TX
**Bell, John T. — 585 — TX
**Bennett, David C. — 681 — FL
**Bennett, Tyler—734— LA
Beringer, Patrick A.— 740 — SC
**Berna, Bryan E. — 739— WA
Bishop, James R., Jr. — 639 — TX
**Blair, George D. — 637 — WA
**Blaize, Leslie — 586 — OR
**Bonds, Alan — 680 — TX
**Bruff, James P. — 671 — PA
Bruff, Mark R.—731— PA, MD

C

**Campbell, Brent R.— 724— FL
Capen, David J., Sr. — 632 — SC
**Carr, Jeffry — 664 — CA, Japan
Carter, Marley— 564 — HI
**Chou., Max—733 — VA
**Clemons, Garet S.— 729 — LA

D

**Dean, Robert — 687 — KY
Dickinson, Vincent — 720 — ME
**Dovinh, Philip — 667 — WA
**Duff, Blair — 698 FL, PR, VI

E

**Edgar, John — 686 — AL

F

**Fernandez, John M. - 696 — Guam, Philippines
**Fleming, Vince — 693 — VA
**Flynn, John G. — 623 — OR

G

**Gadbois, Greg M.— 718 — OR
**Giles, Philip J. — 670 — NH, MA, PR, VI
Gillespie, Matthew S.— 737— SC
**Godfrey, Scott — 692 — TX
Govey, Thomas T. 677 — KY
Graham, Joseph — 695 — AK
**Gronda, Stephen F. — 659 — NY, NJ
**Grondin, Gregory G. — 676 — ME

H

Hair, Glynn — 636 — MS
**Hanson, Jeffery D. — 726 — CA
Hebert, Troy — 683 — LA
**Hernandez, Scott P. — 648 — OR
**Hickey, J. Patrick —669 — NH, MA
**Hughes, Robert A. — 723 — KY

J

Jenny, Geoffrey A. — 685 — LA
**Jones, Lynn R. — 703 — TX

K

Kemmerer, Matthew G. — 707 — IL
Kuebler, Lucas G.—728— TX

L

**LaRue, Adam M.— 715 — VA
**Lee, Bobby Toshio — 602 — HI
Li, Franklin — 738 — CA
**Liu, Amy S. — 706 — WA
**Loprino, John D.—722 — FL

M

Marshall, Joshua — 721 — SC
**Marstellar, Richard — 694 — VA
**Matthews, Anthony — 634 — NJ
**Mercer, Kenneth L. — 577 — TX
**Miller, David J. — 663 — SC
Montanti, Austin L.— 727— NY, NJ
**Moore, Eric L. — 626 — TX
**Morris, Ronald B. — 655 — VA

MARINE CHEMIST DIRECTORY 2022

Certificated Marine Chemists (Alphabetical Order)

(In Alphabetical Order — Name, CMC No. and State)

N

**Nunn, Kerry L. — 665 — VA

P

**Pempeit, Vincent W.— 719 — CA

Petite, Blaine J. — 713 — LA

Phillippi, John M. — 704 — AL

R

**Raffo, Donald V. — 668 — CT

**Raffo, Peter J.— 735 — CT

**Rebstock, Jack B. — 702 — LA

**Rodriguez, Robert R.—730—TX

**Rustad, H. Evans, Jr. — 641 — LA

S

Schmidt, Michael A. — 642 — CA

**Schmitt, Michael L. — 711 — HI

Scott, Christopher — 621 — LA

**Simpson, Robert T. — 708 — CA

**Snell, Gary B. — 697 — MS

T

**Taylor, Jason T. — 714 — TX

**Tew, Robert W. — 712 — VA

**Thompson, Christopher R.— 716 — LA

Trettevik, Craig — 688 — WA

Trettevik, Joseph— 725— WA

Turcotte, Toby N. — 705 — LA

V

Van Huis, Jonathan D.— 736 — TX

W

Walker, John G. — 628 — NC

**Walker, Robert H., III — 645 — VA

**Ward, John R. Jr., — 651 — VA

Warner, Charles D., Jr. — 732—TX

Watkins, Charles E., Jr. — 619 — CA

**Webster, Paul — 675 — CA

Weiffenbach, Denis L. — 643 — FL

**Wellons, W. Rick — 662 — VA

Z

**Zile, Jeffrey A. — 700 — TX

***Special Endorsement for Flammable Cryogenic Liquid Carriers*

Explanation of Abbreviation Found in Geographic Listing of Marine Chemists:

CIH — Certified Industrial Hygienist

CSP — Certified Safety Professional

CHCM—Certified Hazard Control Manager

CHMM — Certified Hazard Materials Manager

OHST— Occupational Health & Safety Technologist

MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
ATLANTIC COAST SECTION

Maine

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General Dynamics - Bath Iron Works
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****J. Patrick Hickey, 669**
See listing in New Hampshire

New Hampshire

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****Philip J. Giles, 670**
See listing in Massachusetts

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Massachusetts

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Connecticut

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MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
ATLANTIC COAST SECTION

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Austin L. Montanti, 727
See listing in New Jersey

New Jersey

****Anthony Matthews, 634**
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Pennsylvania

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Mark R. Bruff, 731
See listing in Maryland

Maryland

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Virginia

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Virginia listings continued on next page.

MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
ATLANTIC COAST SECTION

Virginia listings continued

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Email: rbmcat@msn.com

****Kerry L. Nunn, 665**
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****Robert Tew, 712**
Marine Chemists of Virginia
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Marine Chemist Service, Inc.
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Fax: 757-873-1074

****Robert H. Walker, III, 645**
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****Richard M. Marsteller, 694**
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Virginia listings continued

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MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
ATLANTIC COAST SECTION

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Cell: 843-745-9790

Joshua E. Marshall, 721

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Cell: 843-834-6634

David J. Capen, Sr., 632

Upper Chesapeake Chemist Co., Inc.

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****Brent R. Campbell, 724**

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Marine Chemists & Testing Company, Inc.

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Denis (Whiff) Weiffenbach, 643

Marine Inspection Services

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Phone: 813-393-0697
Email: whiff4244@gmail.com

****John D. Loprino, 722**

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****Blair M. Duff, 698**

See listing in Florida

****Philip J. Giles, 670**

See listing in Massachusetts

MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
GULF-INLAND SECTION (INLAND WATERS)

Illinois

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Current Marine Services, Inc.

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Indian Head Park, IL 60525

Email: chemist707@gmail.com

Phone: 314-780-0801

Kentucky

****Robert D. Dean, 687**

James Marine

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Paducah, KY 42001

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Catlettsburg, KY 41129

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MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
GULF-INLAND SECTION (GULF COAST)

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Email: cmc704@gmail.com

Mississippi

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Marine Chemists of Greenville, Inc.
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Greenville, MS 38702
Cell: 662-347-2112
Email: glynnhair@hotmail.com

****Gary B. Snell, 697**
Gulfport Chemist Services
12400 Oakview Ct.
Gulfport, MS 39503
Phone/Fax: 228-832-9797
Cell: 228-234-2577
Email: cmc697@chemistsvcs.com
Website: www.chemistsvcs.com

Louisiana

August V. Bailey, Jr., 652
Environmental Analysts, Inc.
P. O. Box 29874
New Orleans, LA 70189
Phone: 504-254-1242
Fax: 504-254-1962
Cell: 504-451-0435
Email: eai@bellsouth.net

Louisiana listings continued

Delta Lab & Gas Testing, Inc.
PO Box 3032
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Louisiana listings continued on the next page.

MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
GULF-INLAND SECTION (GULF COAST)

Louisiana listings continued.

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Charles D. Warner Jr.

Gulf Coast Chemists & Consultants, LLC

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MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
GULF-INLAND SECTION (GULF COAST)

Texas listings continued

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Texas listings continued

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MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
PACIFIC COAST SECTION

California

California listings continued

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MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
PACIFIC COAST SECTION

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MARINE CHEMIST DIRECTORY 2022
Geographic Listing of Marine Chemists
PACIFIC COAST SECTION

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MARINE CHEMIST DIRECTORY 2022
Marine Chemist Emeritus

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MARINE CHEMIST DIRECTORY 2022

APPENDIX A

National Fire Protection Association Rules for the Certification and Recertification of Marine Chemists As amended and effective September 01, 2021

The following Rules are established by the Board of Directors of the National Fire Protection Association (NFPA) for the certification and/or recertification of Marine Chemists. These Rules also establish the requirements for Candidates and Marine Chemist Trainees.

For the purpose of these Rules, the following definitions shall apply:

Accredited: A college or university accredited by an accrediting agency, recognized by the Secretary of Education of the United States or accrediting agency of another country as acceptable to the Board.

Applicant: A person applying for certification or recertification as a Marine Chemist.

Association: The National Fire Protection Association.

Board: The Marine Chemist Qualification Board appointed by the Board of Directors of the National Fire Protection Association.

Candidate: A person applying for registration as a Marine Chemist Trainee.

Executive Secretary: NFPA staff appointed by the President of the Association who is responsible for the administration of the duties and responsibilities of the Board in accordance with these Rules and/or as assigned by the President of the Association.

Flammable Cryogenic Liquid (FCL) Vessel: For the purpose of these Rules, a vessel that carries flammable cryogenic liquids as either cargo and/or fuel.

Marine Chemist or Chemist: The holder of a valid Certificate issued by the National Fire Protection Association in accordance with the "Rules for the Certification and Recertification of Marine Chemists" establishing the holder as a person qualified to determine whether construction, alteration, repair, lay-up, or shipbreaking of vessels, which may involve hazards covered by the Standard, can be undertaken safely.

Marine Chemist Emeritus (MCE): The holder of a valid Certificate issued by the National Fire Protection Association in accordance with the "Rules for the Certification and Recertification of Marine Chemists" establishing the holder as a person qualified to provide consultation and training services related to confined space entry and work, and shipyard employment but no longer conducts test and inspections for the purpose of issuing Marine Chemist's Certificates.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

Marine Chemist's Certificate (Certificate): A document issued by a Marine Chemist, on a form authorized by the National Fire Protection Association, stating the conditions that the Marine Chemist found at the time of the inspection.

Marine Field Service Specialist: A full-time employee of the NFPA who is responsible for implementing the Association's Marine Field Service Program.

Rules: The Rules for the Certification and Recertification of Marine Chemists as approved by the Board of Directors of the National Fire Protection Association.

Standard: The *Standard for the Control of Gas Hazards on Vessels*, NFPA 306, in its most recent edition, along with any Temporary Interim Amendments, Errata and Formal Interpretations as published by the National Fire Protection Association.

Marine Chemist Trainee or Trainee: A person who has been registered to begin training under Section VII.A of the Rules.

Qualification Certificate: The document issued to an individual by the National Fire Protection Association in accordance with these Rules, establishing that the holder is a Marine Chemist.

If a word is not otherwise defined in these Rules the definition found in Merriam Webster's Collegiate Dictionary 11th Edition shall be used.

Section I. Qualification Certificate.

- A.** There shall be a Qualification Certificate issued to successful Applicants as evidence that the holder has met the qualifications for certification or recertification as a Marine Chemist.
- B.** Applicants who have evidenced additional experience, training and knowledge in Flammable Cryogenic Liquid (FCL) Vessels, as required by Section VI of these Rules, shall be authorized to issue a Marine Chemist's Certificate to a FCL Vessel under the requirements of the Standard upon becoming certified or re-certified as a Marine Chemist. The Qualification Certificate that is issued to the Applicant by the Association shall be endorsed accordingly.

Section II. Qualifications – General.

All persons to whom these Rules apply shall:

- A.** Be of and maintain good character, and physically able to perform the duties of a Marine Chemist.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

- B.** Be citizens of the United States of at least 18 years of age. Under special or unusual circumstances, and after consultation with the President of the NFPA, the Board may consider foreign nationals for Certification.
- C.** Furnish the Board with such evidence of their training as the Board considers necessary or advisable, as set forth in published Rules, therefore.
- D.** Affirm in writing an intention and ability to practice actively as a Marine Chemist.
- E.** Use only the standard Marine Chemist Certificate form as approved and presented in the Standard when acting as a Marine Chemist applying the Standard.
- F.** Perform all work in accordance with the requirements of the Standard when acting as a Marine Chemist.
- G.** Indicate an understanding of and intention to comply with these Rules by signing a copy of these Rules as presented at the time of Certification and Recertification, or at such times as these Rules change.

Section III. Qualifications – Pre-requisite Educational.

The Board considers the pre-requisite educational requirements listed below essential for favorable consideration of any application. The Board may consider other educational or professional achievements as equivalent to any or all of the below listed items, based on information available at the time of its deliberations.

- A.** Each Applicant shall have at least a bachelor's degree from an accredited college or university.
- B.** Prior to applying for initial certification as a Marine Chemist, each Applicant must have completed the following college level courses intended for science majors with a final minimum passing grade of 2.0 out of a 4.0 grading scale for each required course:
 - 1.** Two semesters or three quarters of general chemistry with labs.
 - 2.** Two semesters or three quarters of organic chemistry with labs.
 - 3.** Two semesters or three quarters of advanced chemistry with laboratory, such as, analytical chemistry, instrumental analysis, quantitative analysis.
 - 4.** One course in industrial hygiene sampling and analysis.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

Section IV. Qualifications – Professional.

- A.** The education, training, knowledge, and experience of any Applicant shall include, but not be limited to, the following subjects:
- 1.** Basic Marine and Shipyard Safety
 - 2.** Fire Prevention and Emergency Rescue Procedures
 - 3.** Combustion and Explosion Technology
 - 4.** Vessel Construction and Structure, including Piping
 - 5.** Above Ground and Under Ground Storage Tanks in Shipyards
 - 6.** Entry into Confined Spaces
 - 7.** Principles of Gas Freeing and Shipboard Test Procedures
 - 8.** Tank Cleaning Procedures
 - 9.** Petroleum Chemistry & Testing of Petroleum Products
 - 10.** The Fundamentals of Industrial Hygiene
 - 11.** Properties of Flammable and Combustible Materials
 - 12.** Properties of Flammable Cryogenic Liquids
 - 13.** Properties of Toxic Gases, Vapors, and Fumes
 - 14.** Properties of Hazardous Cargoes and Materials
 - 15.** Properties of Fumigants and Fumigant Testing
 - 16.** Properties of Tank Coatings and Preservatives
 - 17.** Testing for Toxic Gases, Vapors, Fumes and Residues
 - 18.** Properties of Liquefied Natural and Petroleum Gases
 - 19.** Calibration, Maintenance, and Operational Understanding of Test Instruments
 - 20.** Procedures for personally determining conditions prior to issuance of a certificate for subsequent work.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

21. Certificate writing including minimum content.

- B. The Applicant shall satisfactorily complete the Marine Chemist training curriculum approved by the Board, to substantiate compliance with Section IV. A., above.
- C. Each Applicant shall complete to the Board's satisfaction an examination on the Standard and applicable United States Coast Guard (USCG) and Occupational Safety and Health Administration (OSHA) regulations, and other technically related or appropriate standards, rules, or regulations, as amended to the date of application.

Section V. Qualifications – Practical Experience.

In addition to the educational qualifications set forth in Section III, each Applicant shall have completed the following:

A. Supervised Training.

- 1. Each Applicant, while a trainee, shall have completed at least twelve (12) months of supervised training.
- 2. This training shall be under the direct supervision of at least (3) Marine Chemist trainers. For the purposes of this requirement, a Marine Chemist company or organization may constitute one trainer. Each of these three trainers shall supervise at least forty (40) hours of the Applicant's shipboard/shipyard training required by Section V.B hereof.
- 3. Each trainee shall have broad experience in shipyard operations, cargoes, fuels, and vessel types as covered by the Standard. The maximum credit for training in any one type of vessel is ninety (90) hours.
- 4. Marine Chemists who have been certificated for less than two (2) years are not eligible to conduct training for credit under these Rules.

B. Vessel Inspection and Marine Chemist's Certificate Training.

- 1. Each trainee shall complete a minimum of 500 hours of supervised training during which the trainee shall participate in the testing, visual inspection and Certificate-writing activity associated with the issuance of not less than two-hundred and fifty (250) Marine Chemist Certificates.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

2. Associated with the training in Section V.B.1., each trainee shall submit fifty (50) simulated Certificates that have been reviewed by a Marine Chemist Trainer with his or her application.
3. Trainees shall keep a record of the supervised training in Section V.B.1 using a form provided by the Marine Field Service.

C. Practical Work Experience.

1. Each Applicant shall have completed at least three (3) years of full-time employment in marine construction or repair as a shipyard competent person or equivalent, or in another marine industrial environment acceptable to the Board as listed in Section V.C.2.
2. The Board may consider the following towards satisfying the requirements for the requirements of paragraph Section V.C.1:
 - a. At least five (5) years of experience as a safety professional within a marine transportation company, US Coast Guard, or US Navy.
 - b. Full-time employment for at least one (1) year in the analysis of physical samples of products that are carried onboard marine vessels as cargo or fuel; or used in the construction and repair of marine vessels. The employment is to be in a laboratory or other similar work environment acceptable to the Board.
 - c. At least one (1) year of experience in tankship operations (e.g., tank cleaning, confined space entry, and hot work repairs). This experience is generally considered to be in the following ratings: Chief Mate, First Assistant Engineer, Chief Engineer or Master on tankships; or other similar employment acceptable to the Board.
 - d. At least one (1) year of experience as a ship-fitter, welder, tank cleaner or other similar employment that is acceptable to the Board.
- D. The Board considers the above requirements essential for favorable consideration of any application. The Board may consider other educational, training, professional achievements, or industry experience as equivalent to any or all of the above listed items based on information available at the time of its deliberations.
- E. Each Applicant shall have a working knowledge of the construction of all common types of vessels including hull and superstructure compartmentation systems, machinery spaces, cargo handling systems, and piping systems.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

Section VI. Qualifications - Endorsements.

A. Flammable Cryogenic Liquid (FCL) Endorsement.

Each Marine Chemist or Applicant who submits satisfactory evidence of compliance with the following required experience, training and knowledge shall receive a Flammable Cryogenic Liquid (FCL) endorsement on the Marine Chemist's Qualification Certificate attesting to the fact of authorization to issue certificates under the requirements of the Standard.

Such endorsement shall be valid for a period concurrent with the Marine Chemist's certification, not to exceed five (5) years from the date of issue.

1. Each Marine Chemist or Applicant so applying shall show evidence of:
 - a. Thorough familiarity with construction features of all types of flammable cryogenic liquid containment and handling equipment.
 - b. Knowledge of the location of gas detectors and temperature sensors aboard the vessels and familiarity with their operation.
 - c. Familiarity with interstitial space inerting and flammable cryogenic liquid tank cool-down procedures.
 - d. Familiarity with interstitial space gas freeing and flammable cryogenic liquid tank warm-up procedure.
2. Training required for obtaining the FCL endorsement shall include at least one of the following:
 - a. Conduct at least one gas testing survey aboard a vessel carrying FCL as cargo or fuel under the direct supervision of a Certificated Marine Chemist having a FCL endorsement. The survey shall have included vessel familiarity training concerning the vessel's FCL system. Evidence of completion of said familiarization training shall be submitted with the application for the special endorsement.
 - b. Complete a flammable cryogenic liquid familiarization course accepted by the Board. Evidence of completion of said training program shall be submitted with the application for the special endorsement.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

3. The Marine Chemist or Applicant shall submit to an oral, written or combination examination covering structural design of vessels carrying FCL as cargo or fuel, nomenclature pertinent to such vessels and their FCL related systems, applicable requirements of the Standard, pertinent requirements of 46 CFR Part 154 (USCG regulations for vessels carrying bulk liquefied gases), and such other subjects as may be included by the Board.

B. Flammable Cryogenic Liquids Endorsement Renewal

1. Renewal of the FCL endorsement for a Marine Chemist shall only be considered by the Board for those Marine Chemists who have satisfied at least one (1) of the following during the Applicant's current period of certification:
 - a. Conduct at least one gas testing survey aboard a vessel carrying FCL as cargo or fuel. The survey shall have included vessel familiarity training concerning the vessel's FCL system.
 - b. Complete a flammable cryogenic liquid familiarization course accepted by the Board.
 - c. Satisfactorily complete the NFPA FCL training module examination.
2. Applicants for FCL Endorsement Renewal shall present to the Board the following items in addition to required items under Section VII.C Recertification:
 - a. A request for renewal of the Special Endorsement for vessels carrying FCL as cargo or fuel on the official recertification application form.
 - b. Evidence demonstrating completion of any one (1) of the requirements in Section VI.B. 1 above.

Section VII. Application Procedures, Registration, Initial Certification and Recertification.

Those persons actively working towards or having the intention to seek certification as a Marine Chemist shall register with the Board as a Trainee. Registration as a Trainee is necessary prior to accruing practical experience under Section V. hereof.

A. Registration as a Marine Chemist Trainee

1. A Candidate shall register with the Board.

MARINE CHEMIST DIRECTORY 2022
APPENDIX A CONTINUED

2. Registration shall be completed on the specified form supplied by the Marine Field Service Specialist outlining the Candidate's initial qualifications and the persons they will train under.
3. A non-refundable fee of two hundred fifty dollars (\$250.00) shall accompany the registration form.
4. Each Candidate for registration as a Marine Chemist Trainee shall affirm in writing the intention to actively pursue certification, and upon certification to practice actively as a Marine Chemist.
5. The Board shall consider each application for registration and shall register the Candidate unless it finds reason why the Candidate is not likely to be qualified to apply for certification within a reasonable time. Acceptance of a Candidate for registration shall not provide any right to anticipate certification as a Marine Chemist. Rejection of a Candidate for registration shall not preclude re-registration in the future under a change of conditions.
6. Each Trainee shall annually provide the Board with an update of the status of his or her training on a form provided by the Marine Field Service Specialist.
7. A Trainee who fails to provide such annual report for two consecutive years, or who upon filing such reports fails, in the determination of the Board, to demonstrate adequate activity towards certification for two years, may after due notice and opportunity to be heard in writing, be removed as a Trainee by the Board. Such removal shall be without prejudice to a new application filed pursuant to these Rules.
8. Each Trainee shall complete all requirements for initial certification, except for the personal interview required by Section VII.B.2, within six years of the Board's acceptance of the application for registration. Failure to meet the six-year requirement shall cause the registration to be terminated. After termination for this reason, the Trainee may be reinstated at the discretion of the Board. At the time of reinstatement, the Board shall determine the previous training it will accept, if any, and specify the Trainee's remaining requirements for certification.

MARINE CHEMIST DIRECTORY 2022
APPENDIX A CONTINUED

B. Initial Certification

1. Each Applicant for initial certification shall apply to the Board by way of the Marine Field Service Specialist by submission of the following:
 - a. Official application form, legible and properly completed, accompanied by the required non-refundable processing fee of two hundred fifty dollars (\$250.00) for initial certification.
 - b. Not less than three letters of reference concerning the character and ability of the Applicant.
 - c. Objective evidence of having satisfactorily completed the practical training required under Section V. of these Rules. Applicants wishing to obtain the FCL endorsement at the time of initial certification shall show objective evidence of completing the requirements in Section VI of these Rules.
 - d. The names of all Marine Chemists involved in the Applicant's training.
 - e. A list of all vessels tested during the training period, including the date, name, time aboard, cargo, type and purpose of each test, work to be performed, serial number of Marine Chemist's Certificate(s) issued and the name and number of the supervising Marine Chemist.
 - f. A personal thesis outlining the Applicant's knowledge of those items as assigned by the Board.
 - g. A licensed physician or licensed physician's assistant statement on a form provided by the Board attesting to the Applicant's physical and mental ability to perform the duties of a Marine Chemist.
 - h. Such additional evidence of the foregoing as may be required by the Board.
 - i. An agreement by the Applicant in writing on a form provided by the Board:
 1. to submit a monthly report of his or her Marine Chemists' activities to the NFPA Marine Field Service;
 2. to submit the Marine Chemist's Certificate surcharge fees to the Marine Gas Hazards Control Program in accordance with their requirements; and
 3. to comply with the Rules in effect as amended.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

2. An Applicant shall have a personal interview with the Board. The application of any Applicant who fails after reasonable notice to appear at a scheduled interview shall be deemed withdrawn from the Marine Chemist Training Program and subject to renewed processing at the convenience of the Board.

C. Recertification

The following procedures shall be followed for recertification:

1. Recertification shall only be considered by the Board for Marine Chemists who have actively engaged in Marine Chemist professional activities during their current five year certification period. Minimum requirements for recertification shall be the issuance of ten (10) certificates each year during the most recent certification period.
2. Applicants for recertification shall submit to the Board the following:
 - a. An official application form legibly and properly completed accompanied by an application fee of two-hundred fifty dollars (\$250.00).
 - b. A resume of the Marine Chemist's activities during the current certification period and any other information on his or her professional activities during that period considered necessary by the Board.
 - c. A licensed physician or licensed physician's assistant statement on a form provided by the Board, attesting to the Applicant's physical and mental ability to perform the duties of a Marine Chemist.
 - d. Copies of ten (10) sequential, recently issued certificates with a brief summary or explanation of the circumstance requiring the certificate on a form provided by the Board.
 - e. A list of the instruments and calibration equipment currently being used by the Applicant.
 - f. Evidence of completion to the Board's satisfaction of an examination on the Standard and applicable United States Coast Guard (USCG) and Occupational Safety and Health Administration (OSHA) regulations, and other technically related subjects or appropriate standards, rules, or regulations as amended to the date of application.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

g. Evidence of attendance at a minimum of three technical seminars sponsored by the Marine Chemist Association for the Marine Chemist's professional enhancement during the current certification period.

- i.** One (1) shall be an Annual Seminar
- ii.** One (1) shall be a Sectional Seminar; and
- iii.** The remaining Annual or Sectional Seminar shall be at the discretion of the Marine Chemist
- iv.** Multiple sectional seminar attendance in the same calendar year shall not be counted as meeting the seminar attendance requirement.

h. Such additional evidence concerning a Marine Chemist's ability to apply the procedures and judgment required of Marine Chemists that the Board may deem necessary including, at the Board's discretion, an interview with the Applicant.

i. Reports of any accidents involving the Applicant's Marine Chemist activities during the current certification period.

j. Evidence that surcharge fee payments to the Marine Gas Hazards Control Program are current.

- 3.** Notwithstanding the provisions of Section VII.C.1 above, in instances where an Applicant has been inactive as a Marine Chemist or has failed to complete the aforementioned examination in a manner satisfactory to the Board, the Board may require a personal interview and oral examination, a period of retraining, reexamination, or any combination thereof. Absent extenuating circumstances as determined by the Board the provisions of this section shall not be available to any applicant for two consecutive periods of recertification.

D. Marine Chemist Emeritus (MCE)

- 1.** Marine Chemist Emeritus status is established to recognize those Certificated Marine Chemists who have been actively engaged in Marine Chemist profession and will no longer conduct test and inspections for the purpose of issuing Marine Chemist's Certificates; but will continue to provide consultation and training services related to confined space entry and work, and shipyard employment.
- 2.** The Marine Chemist Emeritus (MCE) certificate shall be valid for a period of five (5) years, or such reduced or extended time or times as is considered appropriate by the Board, unless the MCE certificate is sooner cancelled by the Board

MARINE CHEMIST DIRECTORY 2022

APPENDIX A CONTINUED

3. The holder of the MCE certificate shall be identified by the qualification document number assigned at the time of his or her initial certification as an NFPA Certificated Marine Chemist followed by the letter E (e. g. 123E).
4. Applicants must meet the eligibility requirements in Section VII.D.5. Initial emeritus certification applicants shall meet the requirements of Section VII.D.6. The holder of an MCE certificate shall be required to apply for recertification as per Section VII.D.7.
5. **Eligibility Requirements.** Certified Marine Chemists may apply for Marine Chemist Emeritus status if he or she meets the following criteria:
 - a. The applicant shall have successfully completed four (4) concurrent certification periods.
 - b. *Exception: The Board may consider an applicant with less than four (4) concurrent certification periods if the applicant has demonstrated extraordinary or exemplary service to the Marine Chemist profession.*
 - c. The applicant shall be of and maintain good character and be in good standing with the Board.
 - d. The applicant's qualification certificate shall not be suspended or revoked at the time of application for emeritus status.
 - e. The applicant shall not have any unresolved business with the Board or the Marine Gas Hazards Control Program.
 - f. The applicant shall provide evidence that surcharge fee payments to the Marine Gas Hazards Control Program are current.
 - g. The Applicant shall affirm in writing that he or she shall no longer perform activities related to the tests and inspections of vessels, tanks, or structures within the scope of NFPA 306, *Standard for the Control of Gas Hazards on Vessels*; and shall no longer issue Marine Chemist's Certificates.
 - h. The applicant shall affirm in writing that he or she will no longer use the title, Certified Marine Chemist (CMC), except when referencing his or her years of certification, (e. g., Certified Marine Chemist, 123, from 1985-2015). The MCE certificate holder shall be identified as noted in Section VII.D.3.
 - i. The applicant shall agree to be available to the Marine Chemist Association, Marine Chemist Trainees, and the Board for consultation or training activity.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

6. Initial Application for Emeritus Status. The following procedures shall be followed for applicants seeking emeritus status for the first time.

- a. An applicant seeking emeritus status shall notify the Board no later than sixty (60) days prior to the expiration of his or her qualification certificate.
- b. The Applicant shall surrender any Marine Chemist's Certificates that may be in his or her possession; and any equipment that is the property of the Marine Gas Hazards Control Program at the time that their Certificated Marine Chemist Qualification Certificate expires.
- c. Applicants for Marine Chemist Emeritus shall submit to the Board the following:
 1. An official application form legibly and properly completed accompanied by an application fee of one-hundred dollars (\$100)
 2. A resume of the applicant's activities during his or her last certification as a Marine Chemist; and any other information on his or her professional activities during that time as considered necessary by the Board.
 3. Evidence of attendance at a minimum of three technical seminars sponsored by the Marine Chemist Association for the Marine Chemists' professional enhancement during his or her last full five-year certification period immediately prior to the application for MCE status.
 - i. One shall be an annual seminar;
 - ii. One shall be a sectional seminar; and
 - iii. The remaining annual or sectional seminar shall be at the discretion of the applicant.

Note multiple sectional seminar attendance in the same calendar year shall not be counted as meeting the seminar attendance requirement.

- d. The Applicant shall provide such additional evidence concerning his or her professional qualifications that the Board may deem necessary including, at the Board's discretion, an interview with the applicant.

7. Recertification of Emeritus Status. An applicant for recertification of his or her MCE certificate shall meet the requirements of Sections VII.6.c and VII.6.d.

- a. An applicant for recertification of his or her MCE certificate shall present an application to the Board no later than sixty (60) days prior to the expiration of his or her current MCE certificate.

MARINE CHEMIST DIRECTORY 2022
APPENDIX A CONTINUED

8. Going from Emeritus Status to Certification as a Marine Chemist.

- a. Within the first five-year emeritus status period an applicant who wishes to move from emeritus status to certification as a Marine Chemist shall meet the following requirements:
1. Complete the official application form legibly and properly that accompanied by a non-refundable processing fee of two-hundred fifty dollars (\$250).
 2. Provide evidence of satisfactorily completing the Rules, Section IV. A (Learning Modules).
 3. Satisfactorily demonstrate testing and inspection procedures and completion of the Marine Chemist's Certificate as required by the Standard to one or more members of the Board (or Marine Chemist(s) designated by the Board).
 4. Provide a statement from a licensed physician or licensed physician's assistant on a form provided by the Board attesting to the applicant's physical and mental ability to perform the duties of a Marine Chemist.
 5. Affirm in writing on a form provided by the Board:
 - i. To submit a monthly report of his or her Marine Chemist activities to the NFPA Marine Field Service;
 - ii. To submit the Marine Chemist Certificate surcharge fees to the Marine Gas Hazards Control Program in accordance with their requirements; and
 - iii. To comply with the Rules in effect as amended.
- b. An applicant shall have a personal interview with the Board. The application of any applicant who fails after a reasonable note as to appear at the scheduled interview shall be deemed disqualified and subject to renewed processing at the convenience of the Board. The Board may require an oral examination, a period of retraining, re-examination, or any combination thereof.
- c. An individual holding an MCE Certificate for a period of five (5) years or more shall be required to meet the requirements of the Section VII. 8.a and 8.b; and Section IV. A (Learning Modules), Section V.B (Vessel Inspection & Marine Chemist's Certificate Training), and Section VII.B (Initial Certification).

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

9. Suspension or Revocation of MCE Certificate. The Board reserves the right to suspend revoke or cancel the MCE certificate at any time. The Board shall notify the MCE certificate holder of such action by mailing the notice to the last known address of the applicant period. The following are among the causes for which the emeritus certificate may be suspended, revoked, or canceled.

a. While providing training or consultation services the MCE certificate holder is impaired by alcohol, drugs, or mental instability or is habitually intoxicated by or engaging in the unlawful use of alcohol narcotics, barbiturates, amphetamines, hallucinogens, or other controlled substances having similar effects.

b. If after examination of the facts of any complaint filed with or coming to the attention of the Board is the opinion of the Board that the MCE certificate holder is no longer qualified to be certificated.

c. Falsification or omission of information on the application for initial certification or recertification.

d. The requirements in Sections IX.C through IX.G (inclusive) of these Rules shall be applicable to the Marine Chemist Emeritus.

Section VIII. Reports.

A. Marine Chemists shall submit monthly reports to the Marine Field Service Specialist that shall include:

- 1.** A report of all Certificates issued during the previous month on the current prescribed report form as supplied by the Marine Field Service Specialist of the Association.
- 2.** A copy of one (1) Certificate issued during the month. However, Marine Chemists may be required to submit a copy of each certificate issued during a specific time if required by the Board.

B. Marine Chemists shall submit the Marine Chemist's Certificate surcharge fees to the Marine Gas Hazards Control Program in accordance with their requirements.

C. Marine Chemists and Trainees shall promptly notify the Marine Field Service Specialist of any change of address and other contact information (business or residence), and of any change of employment.

MARINE CHEMIST DIRECTORY 2022 APPENDIX A CONTINUED

- D.** Marine Chemists are requested to report information promptly to the Marine Field Service Specialist, and provide reasonable documentation and reports as requested, regarding any fire or explosion on a vessel, the details of which are available to them because of their personal knowledge of the incident.
- E.** Marine Chemists shall notify the Marine Field Service Specialist within 24 hours of any accident occurring in connection with their professional Marine Chemist activities, or where to their knowledge the lack of a Marine Chemist was a factor and shall supply such reasonable documentation and reports as requested by the Marine Field Service Specialist.

Section IX. Revocation and Renewal of the Qualification Certificate

- A.** The Qualification Certificate issued to a Marine Chemist shall be valid for a period of five (5) years or such reduced or extended time or times as is considered appropriate by the Board, unless the Qualification Certificate is sooner canceled due to receipt by the Board of evidence of the Marine Chemist's inability to consistently and safely apply the procedures and judgments required of Marine Chemists.
- B.** The Board reserves the right to suspend, revoke, or cancel the Qualification Certificate issued to a Marine Chemist at any time. The Board shall notify the Marine Chemist of such action by mailing the notice to the last known address of the Marine Chemist. The following are among the causes for which a Qualification Certificate may be suspended revoked or canceled.
 - 1.** Failure to comply with any of the foregoing requirements for reporting and notification.
 - 2.** Practicing as a Marine Chemist while the Chemist's ability to practice is impaired by alcohol, drugs, physical disability, fatigue or mental instability or if the Chemist is habitually intoxicated by or engaging in the unlawful use of alcohol, narcotics, barbiturates, amphetamines, hallucinogens, or other controlled substances having similar effects.
 - 3.** If, after examination of the facts of any complaint filed with or coming to the attention of the Board, it is the opinion of the Board that the Marine Chemist is no longer qualified to be certificated.
 - 4.** Falsification or omission of information on the application for certification or recertification; application for any endorsements to the Qualification Certificate.
 - 5.** Failure to adhere to the Standard.

MARINE CHEMIST DIRECTORY 2022
APPENDIX A CONTINUED

- C.** Upon receipt of information or a written complaint regarding an alleged misconduct or violation of the Rules for Certification and Recertification on the part of a Marine Chemist, the Executive Secretary of the Board shall forward such information to the Board. After consideration of said information or written complaint and upon a review of any and all relevant information, the Board may take appropriate action under these Rules.
- D.** Where a suspension, revocation, or cancellation may be contemplated by the Board, the Marine Chemist involved shall receive notice and an opportunity for a hearing before the Marine Chemist Qualification Board prior to suspension, revocation or cancellation. However, in circumstances in which information has come to the attention of the Board which gives evidence of the Marine Chemist's inability to apply the procedures and judgments required of Marine Chemists or where information has come to the attention of the Board which indicates that there may be a cause for suspension, revocation, or cancellation of a Marine Chemist's Qualification Certificate, the Board may suspend the Marine Chemist's Qualification Certificate immediately and prior to a hearing, if the public interest and public health and safety require such action and the Board makes such a determination. In such case the Marine Chemist who has been suspended shall be promptly notified of such action by a notice being mailed to the last known address of the Marine Chemist. Thereafter, the Marine Chemist shall be afforded a hearing within ten (10) days of said suspension. Should the Marine Chemist request an adjournment of the hearing date, it may be granted at the discretion of the Board.
- E.** In circumstances where a Marine Chemist is notified of the Board's intention to conduct a hearing concerning the suspension, revocation, or cancellation of the Marine Chemist's Qualification Certificate, the Marine Chemist may be served, at the Board's discretion, with a request to produce documents and information relating to the Chemist's activities. Failure to produce any requested information on a timely basis shall be sufficient grounds for suspension, revocation, or cancellation at the discretion of the Board.
- F.** Prior to the scheduled hearing, the Marine Chemist shall be given notice of the charges. The Marine Chemist shall be afforded an opportunity to be heard by the Board and an opportunity to appear before the Board and present a defense.
- G.** Appeal from action taken by the Marine Chemist Qualification Board may be brought directly to the National Fire Protection Association Board of Directors.

Section X. Applicability

- A.** The effective date of these Rules as amended shall be September 01, 2021.

MARINE CHEMIST DIRECTORY 2022
APPENDIX B

National Fire Protection Association
Regulations for the Organization & Function of the
Marine Chemist Qualification Board
As amended and effective January 01, 2012

For the purpose of certifying Marine Chemists, the Board of Directors of the National Fire Protection Association shall appoint a Marine Chemist Qualification Board (hereinafter called the Board). This Board shall be organized and shall function in accordance with the regulations that follow.

Qualification Certificates are issued upon information believed to be reliable, but no other representation and no warranty or guarantee, express or implied, is made in connection therewith. In addition, neither the Association nor any of its officers, directors, committees, committee members, or employees assume any responsibility for any misrepresentation, error of judgment, default, or negligence of the holder of a Qualification Certificate.

I. Organization of the Board.

1. The Marine Chemist Qualification Board shall consist of five Members, appointed by the Board of Directors of the National Fire Protection Association. The membership of the Board shall have a representative of the following:

- a. Tank vessel operators;
- b. Shipbuilding or vessel repair industry;
- c. Marine Chemist Association, Inc;
- d. Marine insurance industry; and
- e. Practicing Marine Chemists.

2. Membership on the Board shall be available to the following agencies of the federal government:

- a. U.S. Coast Guard (USCG),
- b. U.S. Navy (USN), and the
- c. Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor.

Such membership of agencies of the federal government shall be on a voting or non-voting status as the named agency shall determine. The individual representing each named government agency shall be nominated by that agency and subject to the approval of the Board of Directors of the National Fire Protection Association.

MARINE CHEMIST DIRECTORY 2022 APPENDIX B CONTINUED

3. Members of the Board shall be appointed to serve terms of up to three-years except for the member from the USCG, OSHA, and USN who shall serve at the discretion of the parent agency or unless terminated by the Board of Directors of the National Fire Protection Association.
4. Members serving three-year terms may serve no more than two consecutive full three-year terms.
5. Each member, whether voting or nonvoting, may have an alternate appointed by the Board of Directors.
 - a. The alternate to either the member representing the Marine Chemist Association or the member representing the practicing marine chemists, may serve in the place of the member representing either group for a full meeting if the principal member from either group is not available for that meeting.
 - b. An alternate member shall have the same participation rights as a member when the member is absent. When the member and the alternate are both present, the alternate shall vote only if the member is unable to vote due to a conflict of interest or other reason.
6. A Chairman shall be appointed by the NFPA Board of Directors from among the members of the Board.

II. Duties and Responsibilities of the Board

1. The Board shall advise the Board of Directors of the National Fire Protection Association on the establishment of or amendment to the Rules for the Certification and Recertification of Marine Chemists, (hereinafter called the Rules) which shall be adopted by the Board of Directors.
2. Based upon the Rules as amended and in effect, the Board shall act on applications for:
 - a. Registration of a Marine Chemist Trainee,
 - b. Certification as a Marine Chemist, and
 - c. Renewal of Certification (recertification) of a Marine Chemist.
3. The Board may issue a Certificate or deny certification to an applicant in accordance with the Rules as amended and in effect.
4. The Board may suspend or cancel a Certificate in accordance with the Rules as amended and in effect.

MARINE CHEMIST DIRECTORY 2022 APPENDIX B CONTINUED

5. Action on applications for registration, initial certification, and renewal of certification, shall be by written ballot of the Board.
 - a. If a member of the Board votes against registration of a candidate or initial certification or renewal of certification of an applicant or fails to return a ballot within 30 days, the application of that candidate or applicant shall be held for review and discussion at the next meeting of the Board.
 - b. The vote of an alternate shall be counted only when the member does not exercise his/her voting privilege due to a conflict of interest or other reason.
 - c. The Board shall recommend to the Board of Directors of the National Fire Protection Association a suitable processing fee for processing applications for registration as a trainee, initial certification, and renewal of certification.
6. "*Robert's Rules of Order Revised*," shall govern at meetings of the Board, except as may otherwise be provided in these Regulations.
7. The Board shall keep a record of its proceedings and a register of all applications for certification including the application, the responses of the references, supplementary material submitted with the application, including letter ballots, and such other information as may be deemed necessary by the Board.
8. The Board shall submit annually to the Board of Directors of the National Fire Protection Association a report of its transactions of the preceding year.

III. **Secretary of the Board.**

1. The President of the Association shall appoint a Secretary to the Board who shall be a member of the Association staff.
2. The Secretary of the Board shall:
 - a. Receive applications for registration, initial certification and renewal of certification (recertification) and the applicable processing fee,
 - b. Solicit the recommendations of references,
 - c. Request action on each application from the Board, and President of the Association,
 - d. Perform such other duties as may be requested by the Board or assigned by the President of the Association.
3. The Secretary shall record the Certificate number awarded to each Certificated Marine Chemist and the expiration date.

MARINE CHEMIST DIRECTORY 2022
APPENDIX B CONTINUED

4. Annually a roster of Certificated Marine Chemists shall be published by the Secretary. The roster shall be mailed to each Certificated Marine Chemist and furnished to others on request.

IV. Appeals to the Board.

1. Any person who shall feel aggrieved by any action of the Board in denying or suspending that person's certificate or any other action taken by the Board may appeal therefrom to the Board of Directors of the National Fire Protection Association.
2. The Procedures for Appeals to the Board of Directors from Decisions of the Marine Chemist Qualification Board shall apply to any appeal.

V. Termination of Appointments.

The term of office of members and alternates of the Board may be terminated at the discretion of the Board of Directors of the National Fire Protection Association.

MARINE CHEMIST DIRECTORY 2022

APPENDIX C

MARINE CHEMIST ASSOCIATION, INC.

The Marine Chemist Association, Inc. is an independent professional organization composed of chemists certificated by NFPA in accordance with the preceding Rules.

It had its origin in May 1938, as the Marine Chemists' Subsection of the NFPA Marine Section. Upon termination of the Marine Section in 1948, the present Association was organized for the following purposes:

- a. To promote the science of, and improve the methods of, evaluating and eliminating health, fire, and explosion hazards in marine and associated industries.
- b. To obtain and circulate information relative to these hazards and other information regarding the professional and ethical activities of its members.
- c. To enhance the general welfare of its members by promoting a closer relationship with all concerned industry and regulatory bodies.

Its growing membership is arranged in geographical sections: Atlantic, Pacific, and Gulf-Inland. This structure has enhanced the exchange of views and the development of professional policies.

Representatives of the Association take an active and constructive part in the work of the NFPA Technical Committee on Gas Hazards, Marine Chemist Qualification Board, and Marine Field Service Advisory Committee. Through its educational seminars, informational bulletins, and Association newsletters, professional advancement is realized.

The esteem in which the Marine Chemist Association, Inc. is held is based on its record of dedicated service and continuous adherence to the highest standards of integrity and fair dealing.

MARINE CHEMIST DIRECTORY 2022
APPENDIX C

MARINE CHEMIST ASSOCIATION EXECUTIVE COMMITTEE
OFFICERS (as of May 20, 2021)

Chairman:	Michael A. Schmidt, CMC 642
Chairman-Elect:	Philip J. Giles, CMC 670
Past Chair:	Brian A. Axelrad, CMC 691
Secretary-Treasurer:	Donald V. Raffo, CMC 668
Atlantic Delegates:	Peter J. Raffo, CMC 735 Austin Montanti, CMC 727
Gulf-Inland Delegates:	Thomas T. Govey, CMC 677 Toby Turcotte, CMC 705
Pacific Delegates:	Vincent W. Pempeit, CMC 719 Bryan Berna, CMC 739

