Naval Engineering Certificate

Use the following checklist to verify all requirements have been completed to sit for the final Naval Engineering Certificate assessment and e-mail this form, with supporting documents as required, to certificate@navalengineers.org.

Prerequisites
☐ I have attached to this application a transcript indicating an engineering degree from an ABET-accredited undergraduate program.

☐ I am an engineer from a non-ABET-accredited degree programs or a non-engineering scientists, to include mathematicians and physicists, and I have attached to this application my transcript and justification for consideration of equivalency to an ABET-accredited engineering degree.

Intended Learning Outcomes
1. I have demonstrated competency in the core fields of naval engineering via completion of the requirements as follows:
   a. Weights and balance
      ☐ Course: From Kayaks to Carriers: Basics of Ship Design
      ☐ Symposium: Technology, Systems, and Ships
   b. Arrangements
      ☐ Course: Marine Systems I Short Course
      ☐ Course: International Naval Design Standards
      ☐ Symposium: Fleet Maintenance and Modernization Symposium
   c. Stability
      ☐ Course: Ship Seakeeping and Small Boat Dynamics
      ☐ Course: From Kayaks to Carriers: Basics of Ship Design
      ☐ Symposium: Launch and Recovery Symposium
   d. Fundamentals of marine electrical systems
      ☐ Course: Electrical Power Basics
      ☐ Symposium: Intelligent Ships Symposium
      ☐ Symposium: Advanced Machinery Technology Symposium
   e. Fundamentals of marine propulsion
      ☐ Course: Marine Systems I
   f. Fundamentals of combat systems
      ☐ Course: An Introduction to Combat System Engineering
g. Shipboard maintenance and corrosion mitigation
   - Course: Maintained Systems Short Course
   - Course: Maintenance and Modernization - the Challenge of Integration
   - Course: Shipboard Corrosion: Characterization and Prevention Strategies
   - Symposium: Fleet Maintenance and Modernization Symposium
   - Symposium: MegaRust

h. Design for austere conditions
   - Symposium: Arctic Day
   - Symposium: Multi-Agency Craft Conference

i. Future technologies
   - Course: Intro to Autonomous Systems
   - Course: Tools, Training and Technology for Additive Manufacturing (3-D Printing)
   - On-Demand Course: Fuel Cells at Sea

j. Fundamentals of cybersecurity
   - Course: Foundations of Cyber Security

2. I have demonstrated the ability to critically assess a marine casualty via completion of the following requirement:
   - Course: From Kayaks to Carriers: Basics of Ship Design
   - On-Demand Course: Forensic Engineering: The Sinking of the ROKS Cheonan
   - On-Demand Course: Thresher, the submarine, the men. Unraveling the story
   - Symposium: Self-directed case study presented at an ASNE event

Name (printed):                     E-mail:

Signature:                          Date: