



# SMC 2020 PE Learning Assessment and Application Form

## INSTRUCTIONS

These instructions apply for continuing education credit for New York State Licensed Professional Engineers (and therefore for credit in those jurisdictions and states that have applicable reciprocity agreements with New York State). If you take advantage of the opportunity offered and want the credit earned to be certified and recorded, you must submit this form, accompanied by payment of the service fee cited below.

You can earn PDH credits two ways, providing attendees the unique ability to attend each and every session - either **live** or **on-demand** - a brand new benefit for SMC 2020! Professional Engineers licensed in New York State are required to obtain 36 PDHs over a three-year license renewal period. Up to eighteen (18) of those PDH's may be earned as "other educational activity," essentially self-learning without a live instructor present. Certificates for continuing education PDHs will include one line for regular course activity PDHs, and a second line for course activities without a live instructor present, ("on-demand" PDH's) with the following note, "This credit is for other/non-course activity per NYS Reg. 68.11(C)(3)(ii)(b)."

For live-instruction AND "other educational activity" (on-demand) credit, you must conform to the following requirements:

- You must be logged in for the entire presentation** from beginning to end, including the interactive Q&A portion with a live instructor. To qualify for live-instruction credit, you must attend the full session in real-time. You certify your complete attendance, via live streaming OR on-demand, by your signature and PE license number on this form. If you have arrived late, departed early, or were distracted during the session, you must disqualify yourself and must not claim credit for that session. Partial credit is not available.
- The live presentations, combined with the Q&A immediately following, are each accredited for one (1.0) PDH. The 'on-demand' presentations are each accredited for 0.5 PDH, and do not include the Q&A portion. There is a two-presentation minimum for the on-demand option, both of which must be from the same category.**
- You MUST complete the Learning Assessment. A three-part Learning Assessment is REQUIRED for every Session for which you are seeking credit.** The last page of the form includes spaces for multiple "on demand" sessions. *A certificate cannot be issued if the Learning Assessment is incomplete.*
- The completed form must be submitted by mail, for receipt no later than Thursday, January 7, to: SNAME, 99 Canal Center Plaza, Suite 310, Alexandria, VA 22314, Attention Brenda Zelada, signed and with method of payment indicated.** Only hard copies of the form with an original signature can be accepted.
- After the meeting a **Certificate of Course Completion** will be issued to qualified learners by SNAME. Records will be retained and made available for audit, including login identities and times.

Print clearly. This information will be used to process your credits.

Name \_\_\_\_\_ Title \_\_\_\_\_ Professional affiliation \_\_\_\_\_

E-mail address \_\_\_\_\_ Daytime telephone number \_\_\_\_\_

**I certify by my signature below that I attended the sessions as indicated on the following pages, in each case from the start of the session until the session was adjourned:**

Signature of learner \_\_\_\_\_ PE License Number \_\_\_\_\_ State/Province \_\_\_\_\_

*Credit will be given only for applications **received** at SNAME headquarters by **Thursday, January 7**. Incomplete applications, applications received after January 7, and/or applications for which payments are not received by **January 7**, will not be processed.*

**The completed form must be signed and submitted by mail to:**

SNAME, 99 Canal Center Plaza, Suite 310, Alexandria, VA 22314, Attention: Brenda Zelada, with method of payment indicated. Please retain a copy for your records.

Please calculate your payment using the fee structure below.

# Sessions	1	2 to 5	6 to 10	11 to 15	16 or more	
Cost per session: Member	\$20	\$16	\$14	\$12	\$10	_____ Total # of sessions x cost per session = Total Amount Due
Cost per session: Non-Member	\$30	\$24	\$21	\$18	\$15	

\_\_\_ Check enclosed with application

\_\_\_ Pay with credit card: \_\_\_ MasterCard \_\_\_ Visa \_\_\_ Discover \_\_\_ American Express

Account Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

## **SMC 2020 PE Learning Assessment and Application Form – Tuesday, Sep 29 - Friday, Oct 2**

### **Circle the Session that you attended live on Tuesday morning, 11:00 am:**

Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

065	Energy	Sustainable Decarbonization of Ocean Transportation for Zero-emission Electric Propulsion - Gennaro, Boe
053	Hydrodynamics	A Method for Operational Discovery in Maritime Operations - Brown, Veitch
116	Forensics	Use of Simulation and Animation in Forensic Investigations of Vessel Accidents - Smith, Davis, Rewerts, Turner
003	Shipbuilding	Steel Fabrication Cost Estimation Tool for Marine Industry - Helvacioğlu, Helvacioğlu, Basaran
075	Shipbuilding	Simulation-based Study on Man-hour Estimation for Forming Curved Hull Plates - Song, Lee, Kim, Kang, et al

### **Learning Assessment for Tuesday morning, 11:00 am, or “on-demand”:**

Cite three principles or new developments learned from or reinforced by this session: (3-part Assessment req'd for EVERY Session claimed)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

### **Circle the Session that you attended live on Tuesday afternoon, 1:00 pm:**

Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

015	Digital Transform	On-Board Ship 3D Environment (Developing Capabilities to Extend the Product Model) - Debbink, D'Aurora
084	Hydrodynamics	Hydrodynamic Optimization of a T-foil - Liao, Yildirim, Martins, Young
040	Ship Design	Leveraging Accessible Technologies to Achieve Immediate Improvements in Shipbuilding - Corbett, Cahill, Belbin
073	Ship Design	Simplified Container Stack Nonlinear Analysis Procedure - Chen, Petricic, Xie, Zhao, de Kat
055	Ops, Maint, Infra	Impacts of Climate Change on Ports: Current Levels of Preparedness - Mariano

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1. \_\_\_\_\_
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### **Circle the Session that you attended live on Wednesday morning, 10:30 am:**

Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

016	Digital Transform	Minimum Standardized Content to Enable a Navy Digital Enterprise - Jennings, Debbink
085	Hydrodynamics	Full-Scale/Model-Scale Comparison of Podded Icebreaker's Performance in Ice with Flexural Strength Measurement Study - Wang, Brown, Frederking
090	Ops, Maint, Infra	Improving the Visibility of Underwater Video in Turbid Aqueous Environments - Papadakis, Upadhyay
080	Safety	Determining Collision Risks for Fixed Offshore Structures - Bandas, Koldenhof, Sellers
005	Ship Building	Sister Ship Applicability applied to the Shipbuilding Demands - Fernandez, Gonzalez

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Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

056	Digital Transform	Laser Scan to CAD Analysis - Griffith, Debbink
091	Digital Transform	3-D Work Simulation Oriented to Digital Transformation for Shipyard: Applying to Sub-assembly Process - Shinoda, Tanaka, Kishigami, Fujisawa
001	Energy	The Propane-Fueled Ship - Monzingo
029	Hydrodynamics	Steady-State Performance Curve Development for Planning Craft with Continuous Data - Harris, Garvin
048	Hydrodynamics	Effect of Nonlinear Geometric Twist on Hydrodynamic Performance of Hydrofoils with Bell-Shaped Spanloads - Onas, Pierce, Tinnell

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**Attention: Brenda Zelada**, and **received** at SNAME headquarters **no later than Thursday, January 7**

## **SMC 2020 PE Learning Assessment and Application Form – Tuesday, Sep 29 - Friday, Oct 2**

### **Circle the Session that you attended live on Wednesday afternoon, 1:30 pm:**

Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

- |     |                   |   |
|-----|-------------------|---|
| 093 | Digital Transform | Advanced Knowledge Provisioning using Artificial Intelligence (AI) & Augmented Reality (AR) for Ship Repair - Dlugokecki, Burek, Boisvert, Hepinstall, Buelsing |
| 026 | Hydrodynamics     | Fatigue Damage Estimation and Prediction Using Vessel-Specific Wave Conditions - Wang, VanDerHorn, Liu, Serratella  |
| 089 | Hydrodynamics     | Added Resistance and Added Power of the KCS in Head Seas - Woeste, Gouveia, O'Reilly, Young   |
| 082 | Safety            | Subchapter M – Two Years in from the TPO Viewpoint - Lindholm   |
| 024 | Ship Design       | Topsides Deck Structure Stiffness Modeling and its Effects on Hull and Deck Design - Yang, Zhong  |

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Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

- |     |                   |   |
|-----|-------------------|---|
| 043 | Digital Transform | Developing and Deploying Remote Access Infrastructure for Global Equipment Support - Page                                     |
| 025 | Hydrodynamics     | Re-Visiting Vessel Stability Tests for Simplicity and Expanded Application - Daidola  |
| 033 | Hydrodynamics     | An Investigation of Residual Hydroelastic Response of 3D Printed Propeller at Low Reynolds Numbers - Husser, Onas, Brizzolara |
| 063 | Safety            | Progress Through Failure – The Case of Ship and Offshore Structures - Basu  |
| 030 | Ship Design       | Solution to Optimize the Electrical Design through the Digital Thread - Alonso de los Rios, Kramer                            |

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Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

- |     |                   |  |
|-----|-------------------|--|
| 072 | Digital Transform | iFEM for Marine Structure Digital Twins - Effective Modeling Strategies Phelps, Tessler  |
| 113 | Digital Transform | ABS Virtual Commissioning: The Use of Simulation to Satisfy Class Requirements - Armanes, Mesineni, Chow                                       |
| 012 | Hydrodynamics     | 2D CFD Studies on Effects of Leading-Edge Propeller Manufacturing Defects on Cavitation Performance - Jin, Zha, Peng, Qiu, Gospodnetic         |
| 068 | Hydrodynamics     | `Next Minutes` Ocean Waves and Vessel Motion Predictions for more Efficient Offshore Lifting Operations - Halstensen, Vasilyev, Zinchenko, Liu |
| 100 | Safety            | Industrial Fire Safety, Fire Prevention and Control - McGowan, Smith   |

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### **Circle the Session that you attended live on Thursday afternoon, 2:30 pm:**

Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

- |     |                   |  |
|-----|-------------------|--|
| 010 | Hydrodynamics     | Reconstructed Kinematics and Hydrodynamic Loading Using Spray Root Propagation in Wedge Water Entry - Javaherian, Ren, Gilbert |
| 014 | Hydrodynamics     | Re-analysis of Partially Ventilated Transom Flow Elevations for Deadrise Hulls - Tilicki, Royce                                |
| 058 | Hydrodynamics     | Wave Resistance Reduction for Ships Traveling in Fleet Formation - Lambert, Brizzolara   |
| 092 | Hydrodynamics     | Hull Form Performance of a Coastal Patrol Boat in the Gulf of Guinea - Kokro, Datla  |
| 109 | Ops, Maint, Infra | New Hybrid Induction Cutting Processes for Ship Salvage and Recycling - Jones, Rhoades, Mann, Surufka, Dydo, Holverson         |

### **Learning Assessment for Thursday afternoon, 2:30 pm, or “on-demand”:**

Cite three principles or new developments learned from or reinforced by this session: (3-part Assessment req'd for EVERY Session claimed)

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# SMC 2020 PE Learning Assessment and Application Form – Tuesday, Sep 29 - Friday, Oct 2

## Circle the Session that you attended live on Friday afternoon, 1:00 pm:

Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

- 035 Digital Transform A Review on Applications of Machine Learning in Shipping Sustainability - Pena, Huang, Ahlgren
- 039 Hydrodynamics Turbulence Modelling Capabilities of ILES for Propeller induced URN Prediction - Kimmerl, Mertes, Abdel-Maksoud, Thewalt
- 045 Hydrodynamics Riding the Chine: A Case Study in Commercial Fishing Vessel Stability - DeNucci, Wheeler, Wadleigh, Pawelczyk, Bertulaitis
- 032 Ship Design Additive Manufacturing for Marine and Offshore Applications - Qiao, Wang, Cridland
- 060 Ship Design Conversion of LCS Freedom Class to a Strike-Capable Platform - Macaluso, Fountain, Hammond

## Learning Assessment for Friday afternoon, 1:00 pm, or “on-demand”:

Cite three principles or new developments learned from or reinforced by this session: (3-part Assessment req'd for EVERY Session claimed)

1. \_\_\_\_\_
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## Circle the Session that you attended live on Friday afternoon, 2:00 pm:

Put a checkmark ✓ next to the session number(s) if you attended “on-demand”

- 098 Digital Transform Application of Machine Learning to Early-Stage Hull Form Design - Shaeffer, Yang, Wilson
- 112 Energy Cradle to Grave Issues with Vessel Lithium-Ion Batteries - Ayers
- 009 Hydrodynamics A Verification and Validation Study on a Loosely Two-way Coupled Hydroelastic Model of Wedge Water Entry - Ren, Javaherian, Gilbert
- 034 Safety Inter-Compartment Sound Transmission Regulations and Testing on Marine Vessels - Hunt, Beaudry, Spence
- 027 Ship Building Numerical Studies on Out-of-Plane Bending of Mooring Chain for Floating Production Installations – X. Zhang, Wang, Q. Zhang

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## Additional Learning Assessment spaces for sessions taken “on-demand”

### Learning Assessment for Session # \_\_\_\_\_ “on-demand”:

Cite three principles or new developments learned from or reinforced by this session:

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