

Engineering Certification Programs

FSBPA National Conference

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Outline

ASCE Objectives
Specialty Certification
Academies under CEC
ACOPNE Background
ACOPNE Requirements
Application Process
Summary



ASCE Strategic Plan

- Assist members to develop leadership
- Advance technology
- Advocate life-long learning
- Promote the engineering profession

ASCE Approach

- Create broad area specialty institutes
- Develop Civil Engineering Certification, Inc.
- Create certification academies



Civil Engineering Certification, Inc.

The purpose of Specialty Certification is to:

“raise the qualification beyond the PE”



Civil Engineering Certification, Inc.

CEC VISION

Board certified civil engineers will be recognized for education, experience, and ethics in their professional specialty.

CEC MISSION

To provide a mechanism for the specialty certification of the various disciplines within the civil engineering profession

Civil Engineering Certification, Inc.

CEC Academies

- n The American Academy of Water Resources Engineering (AAWRE)
- n The Academy of Geo-Professionals (AGP)
- n The Academy of Coastal Ocean Port & Navigation Engineering (ACOPNE)

Civil Engineering Certification, Inc.



- Founded in 2004 (www.aawre.org)
- Certifies Water Resources Engineers
- Currently 516 Diplomates, (D.WRE)
- Target of 680 Diplomates in FY2010

Civil Engineering Certification, Inc.



- Founded in 2008 (www.geoprofessionals.org)
- Certifies Geo-Professional Engineers
- Currently 125 Diplomates, (D.GE)
- Target of 275 Diplomates in FY2010

Civil Engineering Certification, Inc.



- Founded in October 2009 (www.acopne.org)
- Certifies Coastal, Ocean, Port & Navigation Engineers
- Target of 120 Diplomates in FY2010

ACOPNE

CEC Task Committee Background

- CEC Task Committee formed in January 2009 .
- COPRI Board and CEC recommend committee members
- Meetings to create Academy Bylaws, Business Plan, logo, and target October 1, 2009 as startup
- Expand scope to include additional specialties
- CEC approved the new Academy Bylaws in September 2009



ACOPNE

Certifications

There are four Diplomate Certifications under ACOPNE:

Diplomate, Coastal Engineering (D.CE)

Diplomate, Ocean Engineering (D.OE)

Diplomate, Port Engineering (D.PE)

Diplomate, Navigation Engineering (D.NE)



ACOPNE

Requirements

- Bachelor's degree in engineering, plus 30 additional advance credit hours
- Licensure as a Professional Engineer (P.E.) or equivalent in other countries
- Additional professional experience beyond the licensure
- Strong professional ethics
- Strong oral and written communications
- Continuing Education: 40 PDH's in the previous two years
- Membership in ASCE is not a pre-requisite

ACOPNE

Body of Knowledge Requirements

- Must meet or exceed the BOK for each certification
- 15 Specific Outcomes
 - *1. Knowledge of mathematics, science, and engineering.*
 - *2. Design and execution of experiments, and data analysis and interpretation.*
 - *3...*
- Must be expert in at least one area
- To be published at <http://www.acopne.org>



ACOPNE

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ACOPNE

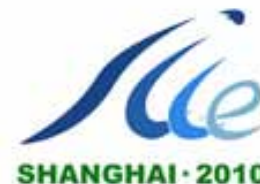
Induction Ceremonies for FY2010

Ports Engineering: **Ports 2010** – Jacksonville, FL – April 21, 2010

Ocean Engineering: **OTC** – Houston, TX, May 3-6, 2010

Coastal Engineering: **ICCE 2010** – Shanghai, China, June 3-6, 2010

Navigation Engineering: **PIANC** – Liverpool, UK, May 10-14, 2010



Why Become a Diplomat?

- Respected expertise
- Validated competence
- Heightened marketability
- Expanded professional network
- Career advancement
- Greater recognition
- Increased credibility
- Polish leadership skills
- Increase knowledge base
- Increased earnings potential



Application Process

- Full application with references for candidates with 8 to 24 years experience
- Streamlined application for eminence candidates
- Review of applications by Board
- Oral examinations
- Details at www.acopne.org

