



# Modeling & Simulation Professional Certification Commission

Credentialing the Certified Modeling and  
Simulation Professional (CMSP)

[www.simprofessional.org](http://www.simprofessional.org)

# M&SPCC History

## What was missing?

- Professional Oversight
- Professional Description
- Community/professional guidance
- Coherent definition of the M&S Industry

## What was done about it?

- M&SPCC Implementation Group formed in 2001
- Professional parameters set
- Credential requirements established
- Examination procedure developed
- Professional Growth coordination

# M&SPCC Mission

To develop and maintain an international Certification Program for Simulation Professionals recognizing standard levels of knowledge and functional competency for the certified professionals and the industry.

# M&SPCC Vision

**To create a worldwide community of Modeling and Simulation professionals that values the accomplishments of individuals and provides an environment that:**

- Encourages and stimulates individual professional growth in Modeling and Simulation.**
- Promotes the development and application of Modeling and Simulation throughout society.**

# M&SPCC Present

## Where are we now?

- Approximately 200 individuals have earned the CMSP distinction.
- Since the On-Line process opened in June, nearly 20 have entered the application process.
- Implementation Group is finalizing initial set-up tasks.

# Implementation Group



Vince Amico	NCS
Bruce Fairchild	Boeing/SCS
Jenni Henderson	UK MOD
Amy Henninger	SOAR Technology
Fred Lewis	NTSA
Bowen Loftin	ODU
Dennis McBride	IST/Potomac Institute
Duncan Miller	MIT
Hank Okraski	NCS
Ralph Rogers	ODU
Hessam Sarjougian	U Arizona
Tom Stanford	DMSO
Helena Szczerbicka	U Hanover
Harry Thompson	SISO
Bill Waite	Aegis
Jeffrey Wallace	Consultant
Mark Yerkes	UCF
Bernie Zeigler	U Arizona
Mike Zyda	NPS

# Benefits

## Career Advancement:

- Applying for a promotion
- Verifying Professional Growth
- Evaluation

## New Opportunities:

- Job Bank being created
- Early request for CMSPs to apply as...
  - Systems Analysts
  - Ph.D. Level Research Analysts

# Certification Criteria

An individual must:

- Show evidence of meeting relevant work experience requirements and educational requirements\*,
- Provide three letters of recommendation, and
- Pass an examination designed to confirm the previous evidence presented for certification.

Certification is valid for four years. Re-certification candidates must show evidence of continued relevant Work Experience and Professional Development.

- \* Minimal Education and Work Experience “Formulas” are:
  - Bachelor’s degree and six years experience
  - Master’s degree and five years experience
  - Doctorate and three years experience

# Certification Board

Established professionals from  
***Industry, Government and Academia***  
review each applicant's credentials and exam.

## ***Industry***

Mr. Hank Okraski  
Mr. James E. Shiflett  
Mr. G. V. (Vince) Amico

## ***Government***

Dr. Janis A. Cannon-Bowers  
Dr. Michael R. Macedonia  
Dr. Steven C. Gordon

## ***Academia***

Dr. Ralph Rogers  
Dr. Bernie Zeigler  
Dr. Louis Birta

# Pioneers

Members of the Implementation Group, Certification Board, and Exam Subcommittee who led the establishment of the M&SPCC and its subsequent certification process.

# Charter Members

Peer nominees who:

Provided proof of their qualifications and activities within the modeling and simulation community, and  
Completed a written exam demonstrating knowledge of the field.

# How to Apply

Open to all members of the M&S community who hold sufficient credentials based on education, work experience and community standing, and pass the certification exam. This is a fully on-line process.

**M&SPCC**  
Modeling and Simulation Professional Certification Commission

The Organization for Developing and Providing Professional Certification

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**Highlights**

**Welcome**

Applications are now being accepted for the CMSP (Certified Modeling & Simulation Professional) designation.

Click on "How to Apply" above for details.

The Modeling and Simulation Professional Certification Commission (M&SPCC), under the auspices of the National Training Systems Association (NTSA), is responsible for the development and provision of professional certification to simulation specialists. Certification creates an identity for and builds cohesiveness across the modeling and simulation (M&S) community by establishing guidelines for determining professional competency. These guidelines cover three core competencies: model-based disciplines such as physics, engineering, human behavior, or biology; the use of empirical based methodologies such as statistics and experiment design; and computer technology and computer science. In addition to these core competencies, a professional must exhibit a degree of knowledge supporting a common basis for communications, cooperation and methodical exchanges across the diverse M&S community. This community includes discrete systems simulation, continuous systems simulation, and real-time systems simulation.

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Done Internet

Go to <http://www.simprofessional.org>

Click on "How to Apply"

# M&SPCC Future

## What's Next?

- **Expansion of Certification Board.**
- **Defining Recertification guidelines.**
- **Defining further breadth/depth of CMSP levels.**
- **Set-up of Oversight Commission.**
- **Outreach/Information to and about**
  - **Contracting Agencies**
  - **M&S community**
  - **Continuing Education**

# ACTION ITEMS

- ENCOURAGE MEMBERS OF YOUR ORGANIZATION TO APPLY FOR M&S CERTIFICATION
- DEVELOP A MARKETING PLAN TO INVOLVE OTHER PROFESSIONAL ORGANIZATIONS
- UTILIZE CERTIFICATION REQUIREMENT IN EMPLOYMENT ADS