

# Certified Modeling and Simulation Professional

## Summary



Modeling and simulation is a vibrant and growing profession. Simulations bring digital engineering to life – they convert data and models into dynamic representations that allow users to better understand analyses, to visualize product changes, and to train more efficiently and effectively. This is true within traditional disciplines like science and engineering, but it is increasingly the case in areas like medicine, that now use simulation and simulators to practice surgery, navigate through virtual arteries, and practice advanced lifesaving skills.

So, in a profession, what is the mark of true distinction: certification! This is true in accounting, engineering, management, and since 2002 also for modeling and simulation (M&S) with the Certified Modeling and Simulation Professional (CMSP) program. This program is sponsored by the National Training and Simulation Association (NTSA), which fosters communications between training agencies and users regarding requirements, procurement issues, and policies.

The CMSP designation demonstrates an individual's commitment to superior professionalism, upholding industry standards, and also to continued learning above and beyond even a terminal M&S degree. CMSP applications, qualifications, and examination results are reviewed by a M&S Professional Certification Commission (M&SPCC) which is a senior review board made up of leaders in the M&S community with decades of experience and impeccable credentials. It is this board that ensures the quality of those who are awarded the CMSP designation.

Each recipient has relevant education and experience, has provided three letters of recommendation, passed a rigorous examination, and signed an ethics statement. In addition, every four years, a recipient has to apply for recertification based upon their generation of professional publications, academic contributions, innovative M&S applications, and similar.

The CMSP certification and associated processes are now in their third round of revision. Entitled "CMSP 3.0" the application processes are being streamlined, the examination updated, a learning management system added, and supporting infrastructure improved. In addition, a CMSP Newsletter is now being distributed quarterly and associated webinars and roundtable discussions (with industry, academia, and military representatives) are held regularly.

For additional information please contact Carol Dwyer, CMP; Associate Director, National Training and Simulation Association at (703) 247-9471, [cdwyer@NTSA.org](mailto:cdwyer@NTSA.org) or Ivar Oswald, PhD and CMSP; CMSP 3.0 Executive Committee Chair, at (540) 657-7688, [ioswalt@milcorp.com](mailto:ioswalt@milcorp.com).

