

Certified Modeling and Simulation Professional (CMSP) Examination Examination Format

Background

An M&S Topic Index with 8 “topics” comprising 54 “subtopics” (see CMSP Exam Topic Index) was used to drive the question generation process. The Topic Index was initially based on the SimSummit M&S “Body of Knowledge” topic list, but has been altered somewhat to reflect the availability of sources and testability of the content for each topic.

Over 2000 multiple choice questions have been generated.

Each question has been categorized in three ways:

1. Subtopic (and thus implicitly also topic)
2. Certification type (Core, User/Manager, Developer/Technical)
3. Difficulty (Very easy = 1, Easy = 2, Moderate = 3, Difficult = 4, Very difficult = 5)

Candidate self-selection

Each candidate selects:

1. Certification type being sought (User/Manager, Developer/Technical)
2. One-third (rounded down) of the subtopics within each of the following topics to exclude from his/her exam instance: 2 (Applications), 3 (Domains), 4 (Modeling methods), and 5 (Implementation).

Exam instance

A unique exam instance is generated for each candidate by randomly choosing questions from the question bank. A generated exam instance shall have this structure:

1. 100 questions
2. All questions selected from either “Core” or the candidate’s selected certification type
3. No less than 10 questions from each of the 8 topics
4. No questions from any of the candidate’s excluded subtopics
5. Average difficulty of all selected questions no less than 2.5 and no more than 3.5

Requirements to pass examination

1. Exam must be completed in no more than 14 days
2. At least 85 questions correct