Designing and Implementing Simulation-Based Mastery Learning Curricula

Course Directors: Walter J. Eppich, MD, MEd & William C. McGaghie, PhD

Course Description
Mastery learning is a rigorous form of competency-based education. Use of the mastery model has been shown to improve patient care quality and lower costs. Northwestern Simulation faculty are leading experts in the use of simulation-based mastery learning to develop and measure clinical skills. This five-day course will offer participants opportunities to acquire the knowledge and skills needed to design and implement mastery learning curricula in the following key domains:

- Resuscitation
- Procedural skills training
- Communication skills

After this course, participants will be able to:

- Design simulation-based mastery learning curricula
  - Perform needs assessment
  - Modify existing curricula to align with mastery learning goals
  - Select or develop instruments for outcomes assessment
  - Set performance standards to establish mastery learning goals
  - Rater to training to ensure reliable assessment
- Implement simulation-based mastery learning curricula
  - Create supportive learning environments needed for rigorous deliberate practice and robust performance feedback
  - Structure feedback and debriefing tailored to achieve mastery learning goals
- Recognize the value of research and scholarship for program improvement and career advancement

Dates: June 27 to July 1, 2016
Location: Northwestern University Feinberg School of Medicine
Department of Medical Education and Northwestern Simulation
Chicago, Illinois USA
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Detailed Course Overview

The course is structured to provide participants both didactic inputs and hands-on practice in areas essential for implementing mastery learning curricula. On Days 2, 3, & 4, participants will engage on hands-on sessions devoted to experiencing deliberate practice in the domains of advanced life support, procedural skills, and communication skills training. In addition, on days 3 & 4, participants will begin facilitating mastery learning with faculty coaching.

Day 1: (June 27) 8:00am to 5:30pm
- Introduction to mastery learning
- Curriculum development/improvement

Day 2: (June 28) 8:00 to 5:30pm
- Assessment: overview
- Hands-on deliberate practice sessions
- Feedback & debriefing for mastery learning: educator as a coach

Day 3: (June 29) 8:00 to 3:30pm (early ending)
- Assessment: instrument creation / selection
- Hands-on deliberate practice sessions, including coaching practice
- Day ends early to allow participants time to enjoy Chicago

Day 4: (June 30) 8:00 to 5:30pm
- Program implementation and management
- Hands-on deliberate practice sessions, including coaching practice
- Refining your curriculum with faculty support

Day 5: (July 1) 8:00 to 1:00pm
- Workshop on planning mastery learning research
- Curriculum presentations: each participant will present their curriculum in small groups with faculty and peer feedback.