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WHY A HEALTH SIMULATION LAB?

While classroom learning is essential to high-quality nursing and allied health programs, the “experiential learning” component plays the most vital role in developing solid clinical and critical thinking skills. In fact, a minimum of 50 percent of healthcare educational experience is hands-on learning.

Northeast Iowa Community College creates a clinical environment similar to those found in pre-hospital (EMS), hospitals, nursing homes and other facilities through health simulation lab clinical learning scenarios that significantly increase the amount of practice students receive. This enhances the students’ learning as well as engages practitioners in healthcare careers.

WHAT DOES THE HEALTH SIMULATION LAB OFFER?

The Health Simulation Laboratories at Northeast Iowa Community College can be outfitted to duplicate a pre-hospital (EMS) ambulance, an emergency room, a maternity suite or other clinical settings. The centerpiece of learning in these scenarios is a patient simulator. These sophisticated computer-driven manikins replicate human physiology, clinical symptoms and responses with remarkable realism. The Ambulance Simulator provides EMS students and professionals the ability to practice and master tasks, procedures and policies in an environment that represents the reality of the ambulance workspace.

Critical to the learning experience is the digital video recording of each simulation exercise and the performance evaluation software. Using these tools during the debriefing process faculty can review, evaluate, track and instruct students in the techniques of clinical care.

BENEFITS OF THE HEALTH SIMULATION LAB

- A safe, controlled environment for students to practice and refine their clinical skills and critical-thinking abilities before working with patients.
- Improved patient safety by creating additional clinical practice opportunities to reduce medical errors and increase patient safety.
- Students and practitioners from various disciplines can practice collaboration in realistic healthcare scenarios.
- Using sophisticated digital recording and performance assessment software instructors can record student exercises, review, evaluate and report on their clinical and critical thinking skills in a debrief session.
- Partnerships with area healthcare facilities allow for further exploration and expansion of learning opportunities.
- Opportunities for continuing education through the use of simulation are possible for community healthcare providers.



FUNDING

Workforce Training and Economic Development (WTED) funding may be available to cover the cost of your simulation training. The fund provides training or retraining of workers to develop the skills needed for in-demand careers. It is also an important source of funding for community college program innovation, development and capacity building, particularly for career and technical education, and career academies. Career academies provide career preparation opportunities for high school students that are formally linked with post-secondary career and technical education programs.

HEALTH SIMULATION OVERVIEW

- On average, scenarios are 20-30 minutes in length.
- Small groups of six or less are encouraged for optimal learning.
- Learning objectives and customized scenarios should be defined during consultation.
- On average, debrief sessions are one hour in length.
- Opportunities for continuing education hours are available upon request and require four to six weeks advance notice.

Options to add to your Training:

- Task trainers and use of ambulance simulator.
- Additional facilitators to assist with management of scenario and debriefing.

SIMULATION PREPARATION

Four to six weeks' advance notice is required to customize training to your needs.

1. Meet with the College Contract Training Staff and Simulation Technician.
2. Submit the following to the Simulation Technician:
 - Simulation Topic
 - Objectives
 - Total Number of Participants
 - Timeframe and/or Possible Dates
3. Northeast Iowa Community College Business and Community Solutions will:
 - Provide a written Letter of Agreement with fees outlined
 - Develop a customized scenario based on objectives provided
 - Schedule and confirm training dates
4. Meet with Simulation Technician to review, conduct a practice session and fine tune customized scenario.

LEARN MORE.

 www.nicc.edu/simlab

SCENARIOS

CARDIAC

- ST-elevation infarction followed by ventricular fibrillation
- Ventricular fibrillation
- Acute myocardia infarction
- Angina - coronary artery disease
- Bradycardia treated with Atropine, Pacing, Dopamine or Epinephrine

RESPIRATORY

- Foreign body airway obstruction
- Spontaneous pneumothorax
- Impaired airway protection due to severe ischemic stroke
- Acute asthma
- Respiratory arrest
- Obstruction secondary to seizures

CUSTOMIZED OBSTETRIC SCENARIOS

- Dystocia
- Breech
- Pre-eclampsia
- Cord prolapse
- Preterm labor and hemorrhage

TRAUMA

- Stab wound to abdomen
- Cervical spine injury
- Spontaneous tension pneumothorax

TASK TRAINERS

CPR manikins, IV arm, auscultation stethoscope, intubation manikins, pediatric low fidelity manikin, geriatric manikin, dilatation manikin, Mama Natalie pregnancy vest, hand wash germ-glo

Pre-programmed scenarios are approved by the National League of Nursing (NLN) and American Heart Association (AHA). More scenarios are available upon request.