



Pathway Toward Competence and Confidence[®] in the Cardiac Catheterization Lab



SIMSUITE[®]
MEDICAL SIMULATION CORPORATION

Cardiac Catheterization Lab Orientation Course

Medical Simulation Corporation (MSC) is the only full education service company dedicated to ensuring healthcare professionals are competent and confident in providing high-quality patient care. MSC's SimSuite System provides real-life scenarios and images presented in both didactic and simulated form. Because the clinical scenarios are simulated, no patients are at risk. The opportunity to train in a risk-free environment allows for mistakes to be made without consequence to a patient.

Overview

Staff turnover is a significant issue for many cardiac diagnostic and interventional labs across the country. Ensuring your staff members are competent and confident in the ever-increasing numbers of procedures performed is a challenge. MSC has developed an orientation program to meet this difficult need. The orientation combines hands-on simulation time in the lab with didactic and simulation-based curriculum, designed to create better-prepared staff members and, ultimately, decrease overall orientation time.

Didactic Modules

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|--------------------------------|---------|
| • Basic ECG Review | 3 hours |
| • Hemodynamics in the Cath Lab | 1 hour |
| • Coronary Anatomy | 1 hour |

Simulation Procedures

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| • Right Heart Catheterization | 30 min |
| • Diagnostic Coronary Angiography | 30 min |
| • Percutaneous Coronary Intervention | 30 min |
| • Acute Myocardial Infarction | 30 min |
| • Renal Artery Diagnostic & Intervention | 30 min |
| • Iliac Artery Diagnostic & Intervention | 30 min |
| • Carotid Artery Diagnostic & Intervention | 30 min |

Simulation Features

- Didactic Curriculum
 - ♦ Designed to review disease process, pathophysiology, clinical manifestations, procedure overview, and equipment selection
 - ♦ Patient presentation, history, and physical assessment
 - ♦ Formulation of patient diagnosis
 - ♦ Formulation of pre- and post-treatment plan
- Interventional Lab Specific Simulation Features
 - ♦ C-arm manipulation with full range of gantry angles
 - ♦ Real-time fluoroscopic images with cine and road-mapping capabilities
 - ♦ Unique 3D patient anatomies

- ♦ Catheter manipulation with haptic (tactile) feedback
 - ♦ Lesion wiring
 - ♦ Vessel cannulation and sizing
 - ♦ Balloon and stent sizing and placement
- ♦ Manifold with contrast and inflator capabilities
- ♦ Over-the-wire and monorail techniques using exchangeable and reusable catheter
- ♦ Image acquisition
- General Simulation Features
 - ♦ Pharmacologic management
 - ♦ Responsive hemodynamics and patient responses including heart rate with 3-lead ECG, systolic and diastolic blood pressure, aortic pressure, and oxygen saturation
 - ♦ Adverse event management including hypoxia, hypotension, hypertension, arrhythmias, cardiac arrest, and others
 - ♦ Patient outcomes determined by operator decisions and technical abilities
 - ♦ Over 800 standard data points captured for immediate performance feedback

Benefits

- Full-time clinical education specialist
 - ♦ Provides clinical and technical assistance with each scenario
 - ♦ Courses customized based on participant's skill level—basic to advanced
 - ♦ One-on-one training
- Increased patient safety—ability to practice procedures in a risk-free environment
- Enhancing competence and confidence through consistent training
- Integration into Quality Improvement Programs
- Ongoing core competencies and skills assessment
- Decreases preceptor time
- Team training
- Refresher courses
- Flexible training: on demand
- Ability to set up outcomes studies on the impact of simulation training

For more information, contact HealthcareGroup@medsimulation.com.



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Experience Through Education[®]

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