

Simulation in Education



Medical



Restaurant & Hospitality



Financial Services



Law Enforcement



Disaster Preparedness



Military

Possible Applications for Simulation

Design Guidelines

- ✦ Identify Necessary Stakeholders
 - ✦ Administrative
 - ✦ Academic
 - ✦ Facilities
 - ✦ Information technology
- ✦ Identify Appropriate Spaces
 - ✦ Scenario/program
 - ✦ Control
 - ✦ Debriefing
 - ✦ Storage
- ✦ Identity Necessary Physical Changes
 - ✦ Plumbing
 - ✦ Lighting
 - ✦ Extra-wide doors
 - ✦ Design for failure
- ✦ Make it Real
- ✦ Who Will Run It?

Benefits to the Instructor:

- ✦ Greater Consistency
 - ✦ Same scenario to assess all students
 - ✦ Ability to observe students performance during and after scenario with recording
- ✦ Better Observation
 - ✦ Instructor can observe during the simulation and review the recording afterward
 - ✦ Audio/video feeds can pick up nuances in expressions, gestures, and voice intonation
 - ✦ Can observe student's reaction to stress
- ✦ Full Class Involvement

Benefits to the Institution:

- ✦ Improved Safety
 - ✦ Realism without endangerment
 - ✦ Exposure to high-risk, infrequent scenarios
 - ✦ Mistakes are okay – teachable moments
- ✦ Recruitment Tool

Benefits to the Student:

- ✦ Active Learning
- ✦ Hard Skills
 - ✦ Hand-eye coordination
 - ✦ Physical assessment skills
- ✦ Soft Skills
 - ✦ Effective communication
 - ✦ Listening
 - ✦ Reaction to criticism
 - ✦ Teamwork
 - ✦ Problem solving
 - ✦ Decision making
- ✦ Increase Confidence
- ✦ Immediate Reinforcement & Feedback

Creating Effective Simulation with a Limited Budget

- ✦ Use Design Partner(s) with Simulation Experience
 - ✦ Do not try to reinvent the wheel
- ✦ Manage Expectations
 - ✦ Be realistic
- ✦ Use Existing Resources Creatively
- ✦ Seek Partners For:
 - ✦ Funding
 - ✦ Material donations
 - ✦ Outside participation
- ✦ Share Simulation Content

