




How Simulation Technology Improves Education

What Is Simulation-Based Education?
 The pedagogical approach of providing students with the opportunity to practice learned skills in real-life situations





The Benefits of Educational Simulation

 <p>No Harm, No Foul Allows learners to make mistakes without any risk of harm to patients</p>	 <p>Safety First Provides safety for students in otherwise dangerous environments</p>
 <p>Repetition Learners can repeat an experience as many times as they want or need</p>	 <p>Gather and Measure Data It's relatively easy to monitor learner performance and generate performance data</p>





How Simulation-Based Learning Works

<p>Practice Skills Take learned knowledge from textbooks and put it into practice</p>	<p>Gather Data Instructors gather data that tells a story of how learners performed</p>
	
<p>Debrief Use the data to show students how they can learn from their mistakes</p>	<p>Repeat Repeat the simulation with different variables until students master vital skills</p>

Using Simulation Education in Your Industry

 <p>Education Use role-play simulations in the classroom to explore multiple perspectives</p>	 <p>Healthcare Students and staff practice IV and catheter insertions and surgical procedures using manikins</p>
 <p>Manufacturing Simulations can be used to teach staff how to safely operate complex or dangerous machinery</p>	 <p>Agriculture Simulations help companies solve crop and livestock management problems without causing health risks</p>

Tips for Educating with Simulation

	<p>Maintain a Learning Objective Have 1 main learning objective that students should master with 2-3 supplemental takeaways</p>
	<p>Measure Outcomes A successful simulation should measure student outcomes and provide quantifiable data</p>
	<p>Create a Rubric for Students Be upfront with students on what they will be tested on and how success will be measured</p>
	<p>Debrief Post-Simulation A post-simulation debrief leads to deeper learning by realigning student outcomes with the learning objectives</p>