

**EXPERIENCE  
LEARNING**



 **VIRTUOSI<sup>®</sup>**  
MAKE LEARNING A REALITY







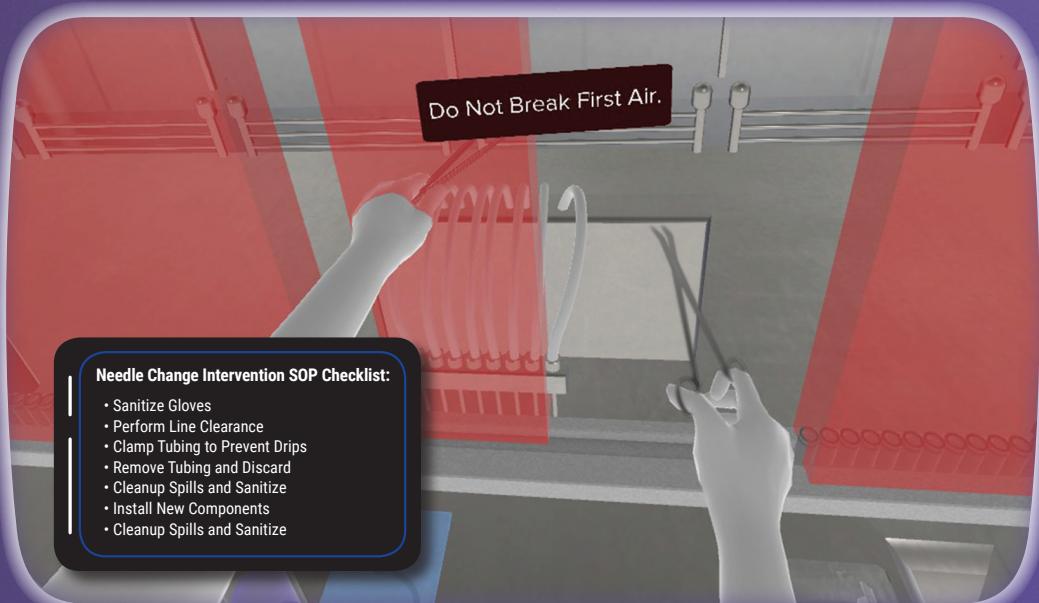
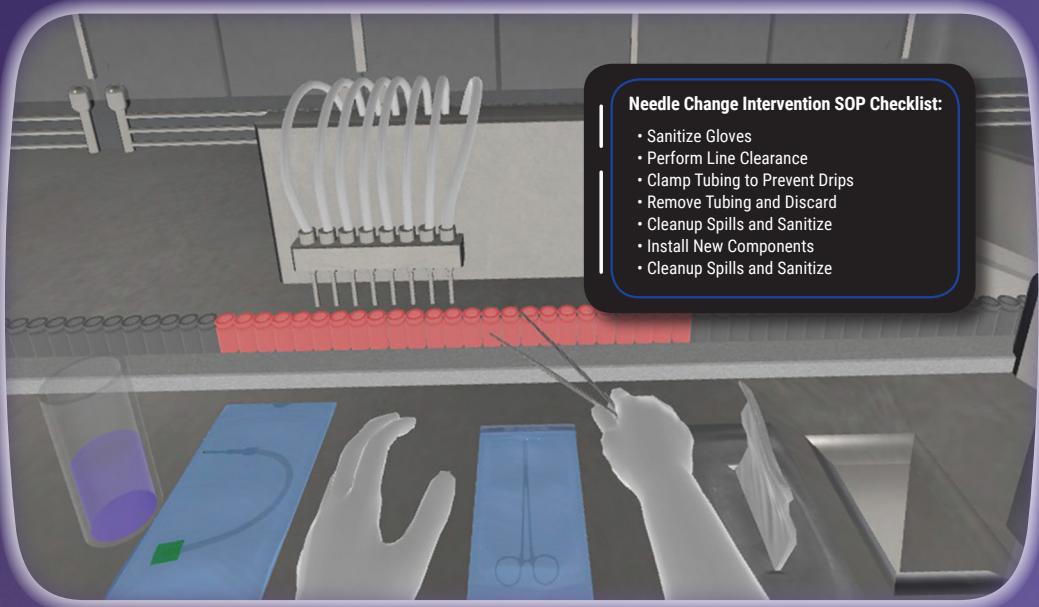


WHERE PRACTICAL REALITY MEETS  
VIRTUAL REALITY!

INFORMATION



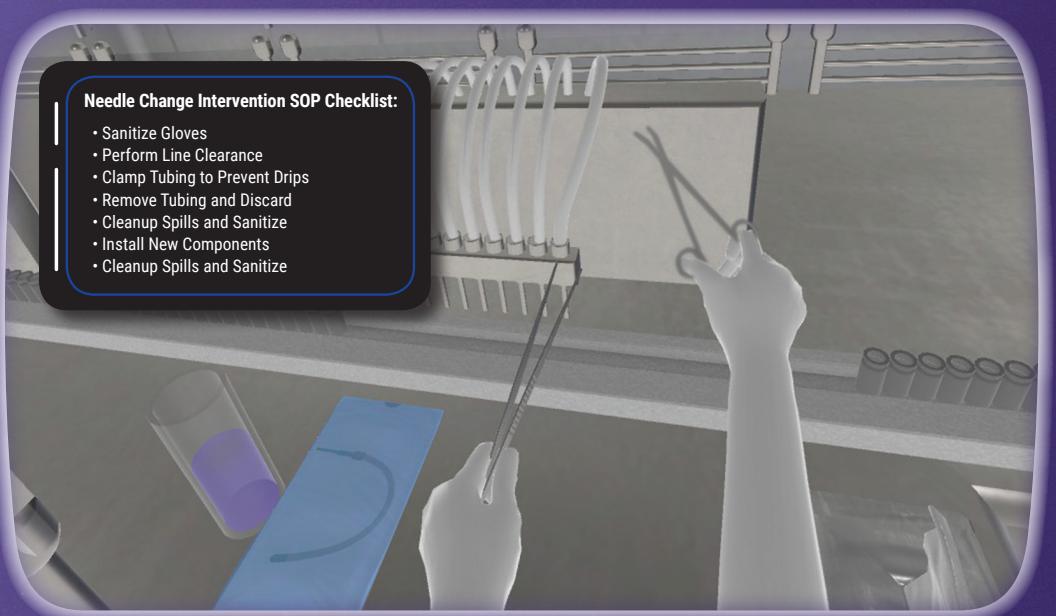
KNOWLEDGE



E X P E R I E N C E



APPLICATION



PROFICIENCY

L E A R N I N G



# THE REALITY OF VIRTUAL REALITY



EXPERIENCE LEARNING  
EMBED LEARNING



## EPISODES

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- Industrial Microbiology
  - Microbiology Laboratory Practices
  - Buffers, Reagents, and Media Management
  - Aseptic Technique and Behavior in Laboratories
  - Sampling and Sample Management
  - Microbial Identification and Culture Maintenance
  - Microbial Limits Testing
  - Sterility Testing
  - Bacterial Endotoxin Testing
  - Preservatives and Antimicrobial Effectiveness Testing
  - Sterilization Indicator Control and Usage
  - Microbiology Data Evaluation and Reporting
  - Microbiological Investigations
  - Microbiology Method Suitability
  - Sterility Assurance
  - Aseptic Technique and Behavior in Manufacturing
  - Gowning for Classified Environments
  - Sterilization Process Control
  - Terminal Sterilization Process Control
  - Sterile Filtration Process Control
  - Depyrogenation Process Control
  - Isolator Process Control
  - The Math and Science of Sterilization and Depyrogenation
  - Facility Cleaning and Disinfection
  - Air Flow Pattern Studies
  - Environmental Monitoring
  - Manufacturing Equipment Use Cycle
  - Equipment Cleaning
  - Formulation of Bulk Product
  - Container Closure Integrity and Visual Inspection
  - Aseptic Process Simulation
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# STERILE PRODUCTS AND



## INTERACTIVE EXPERIENCES

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- Pipette Use
- Serial Dilution Technique and Usage
- Hand Washing
- Vertical and Horizontal Unidirectional Air Flow
- Streaking for Isolation
- Gram Staining
- Microbial Limits Testing
- Sterility Testing
- BET Solution and Sample Preparation
- Fallen Vial Intervention
- Needle Change Intervention
- Facility Cleaning and Disinfection Technique
- Environmental Monitoring Sampling Plan Development
- RODAC® and Swab Sampling for Environmental Monitoring
- Making Aseptic Connections
- Visual Inspection

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## MICROBIOLOGY CURRICULA

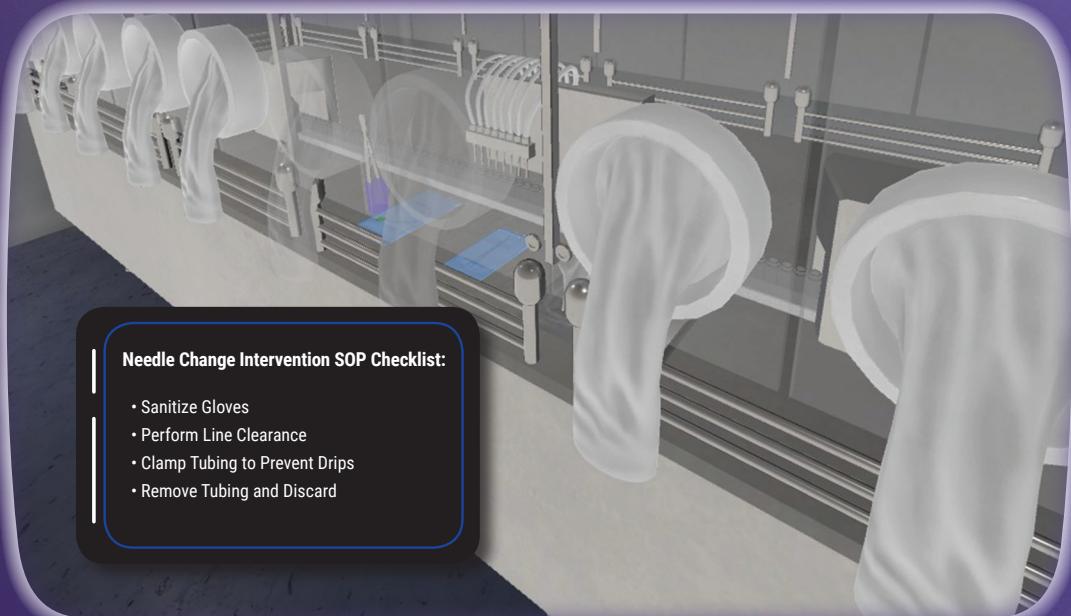
# EDUCATIONAL

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## SCIENTIFIC AND TECHNICAL COURSES

methodically developed and dynamically delivered

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## PROCESS CHECKS

to verify and engage learning during the experience

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# COMPONENTS

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## IMMERSIVE VIRTUAL REALITY EXPERIENCES

to experience success, gain confidence, experience failure, and embed learning

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## KNOWLEDGE ASSESSMENTS

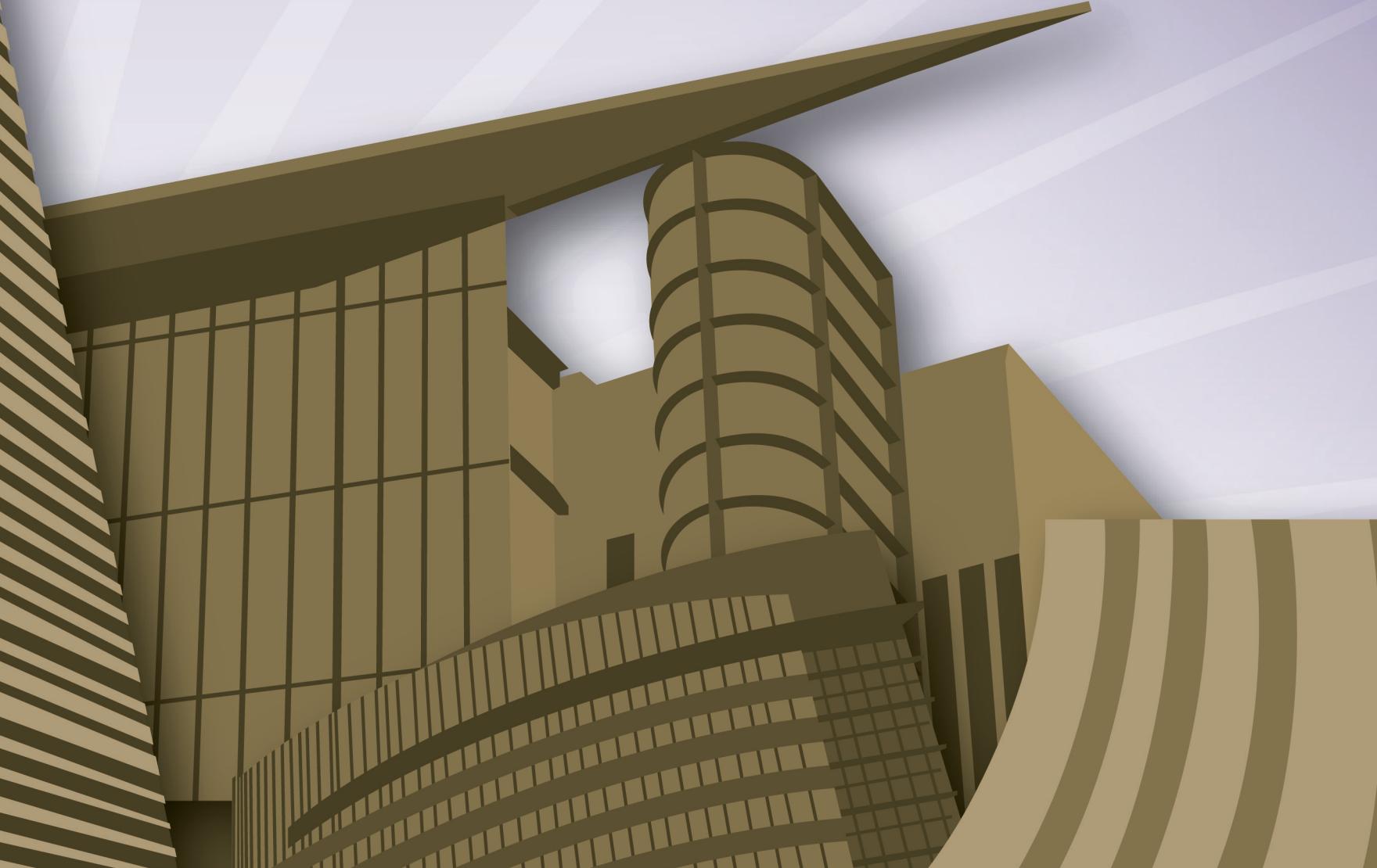
to verify transfer of knowledge, application, and learning



FUTURE TECHNOLOGY SERIES: >

## MORE OPTIONS

- On-Site Performance Certification
- Customized Virtual Reality Modules
- Customized SOP using Virtual Reality
- System Interfacing



- Solid Dose Products/ Manufacturing & Chemistry
- Biotechnology Products/ Manufacturing & Associated Sciences
- Combination Products/Drug Delivery/ Manufacturing & Device Testing
- Active Pharmaceutical Ingredients/ Manufacturing & In-process Controls/Testing



AND THE BOLD REVOLUTION CONTINUES...

Conceptualized, Designed, Developed, and Delivered  
by the Virtuosi of Quality Executive Partners









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