

**EXPERIENCE
LEARNING**



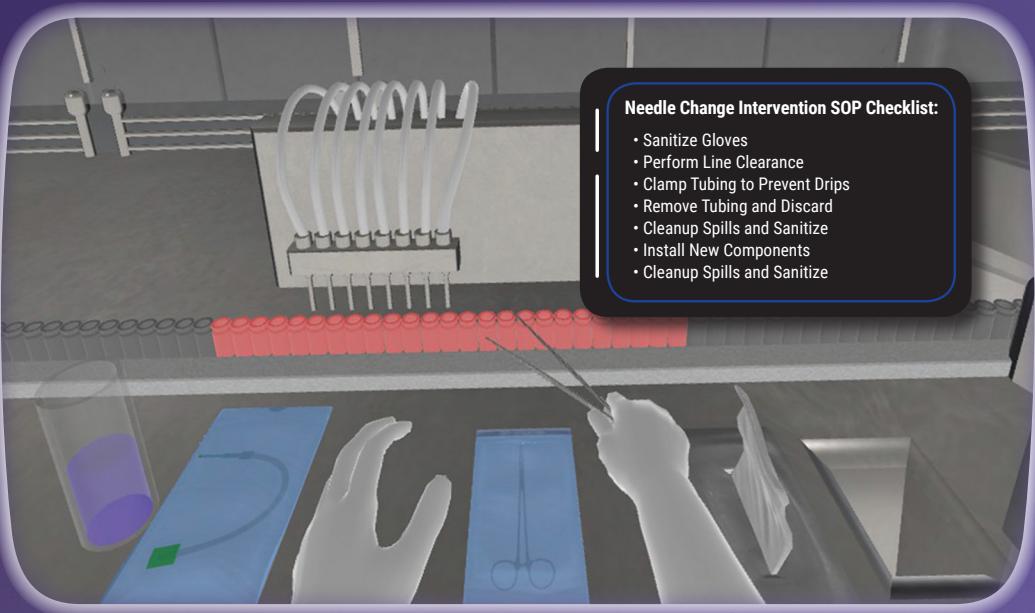
 **VIRTUOSI[®]**
MAKE LEARNING A REALITY



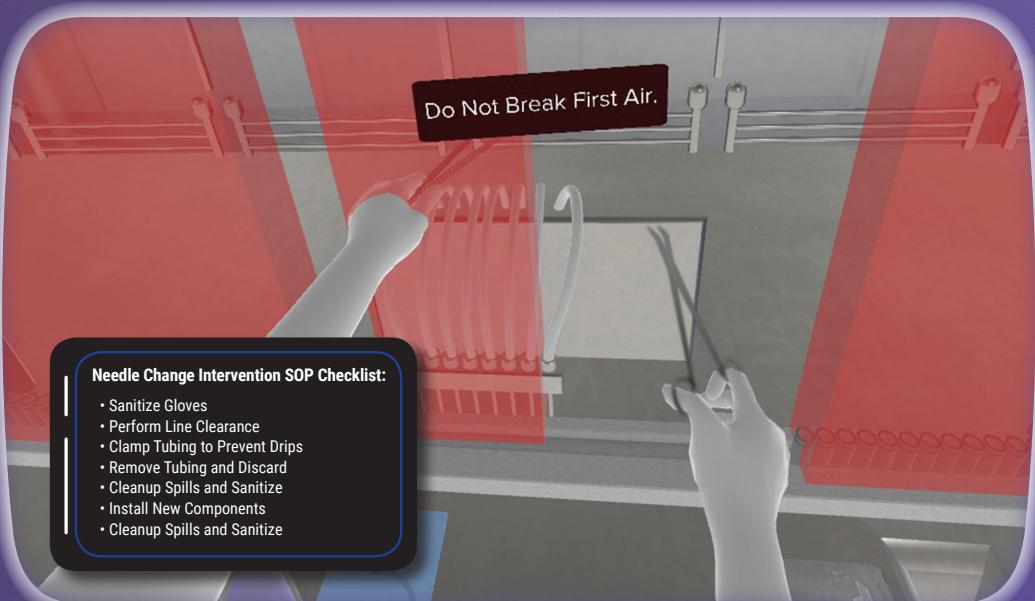


WHERE PRACTICAL REALITY MEETS
VIRTUAL REALITY!

INFORMATION



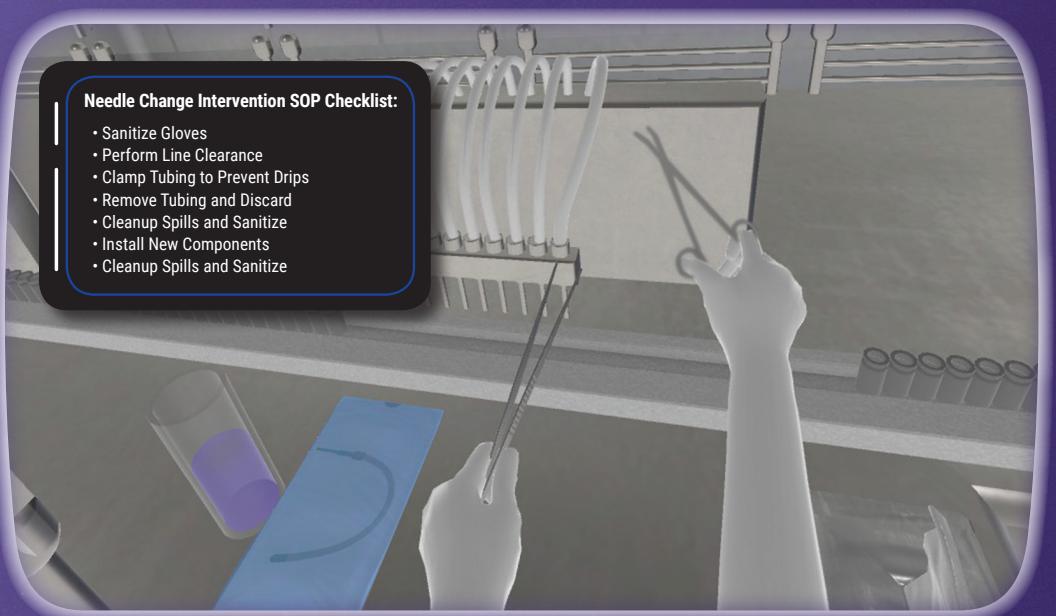
KNOWLEDGE



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



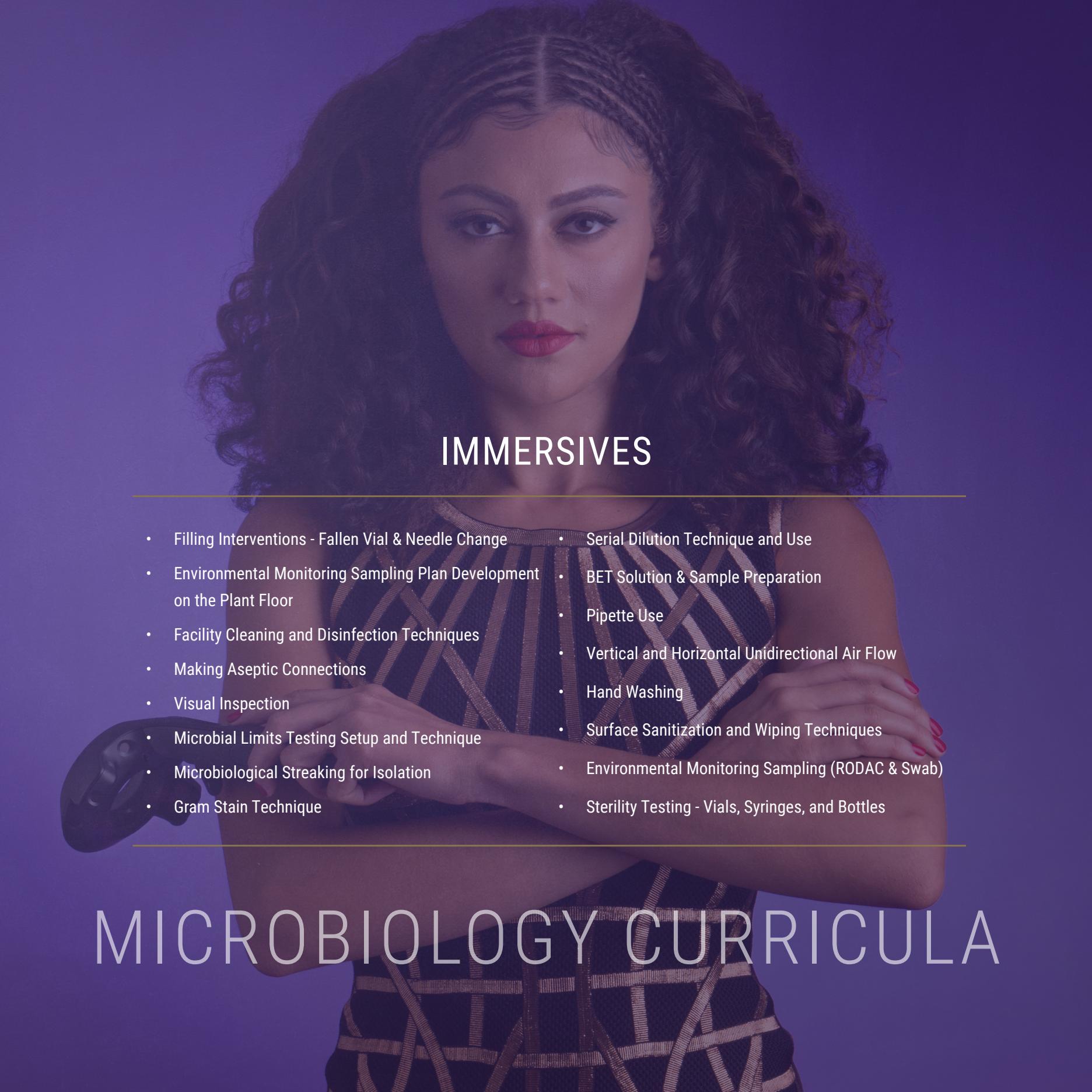
EXPERIENCE LEARNING
EMBED LEARNING



EPISODES

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

STERILE PRODUCTS AND



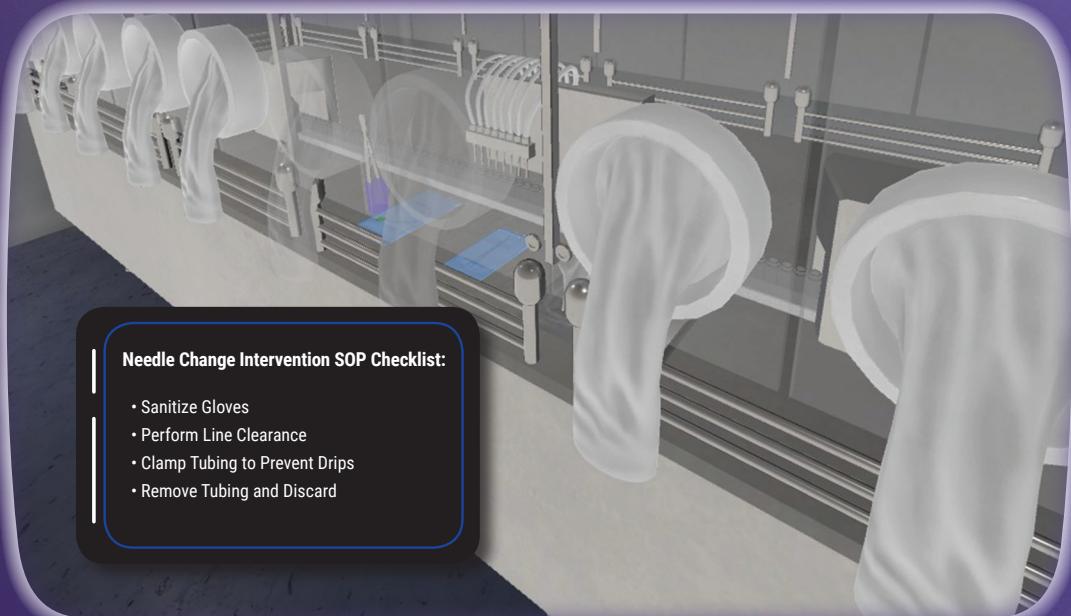
IMMERSIVES

- Filling Interventions - Fallen Vial & Needle Change
 - Environmental Monitoring Sampling Plan Development on the Plant Floor
 - Facility Cleaning and Disinfection Techniques
 - Making Aseptic Connections
 - Visual Inspection
 - Microbial Limits Testing Setup and Technique
 - Microbiological Streaking for Isolation
 - Gram Stain Technique
 - Serial Dilution Technique and Use
 - BET Solution & Sample Preparation
 - Pipette Use
 - Vertical and Horizontal Unidirectional Air Flow
 - Hand Washing
 - Surface Sanitization and Wiping Techniques
 - Environmental Monitoring Sampling (RODAC & Swab)
 - Sterility Testing - Vials, Syringes, and Bottles
-

MICROBIOLOGY CURRICULA

EDUCATIONAL

SCIENTIFIC AND TECHNICAL COURSES
methodically developed and dynamically delivered



PROCESS CHECKS
to verify and engage learning during the experience

COMPONENTS

IMMERSIVE VIRTUAL REALITY EXPERIENCES

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



KNOWLEDGE ASSESSMENTS

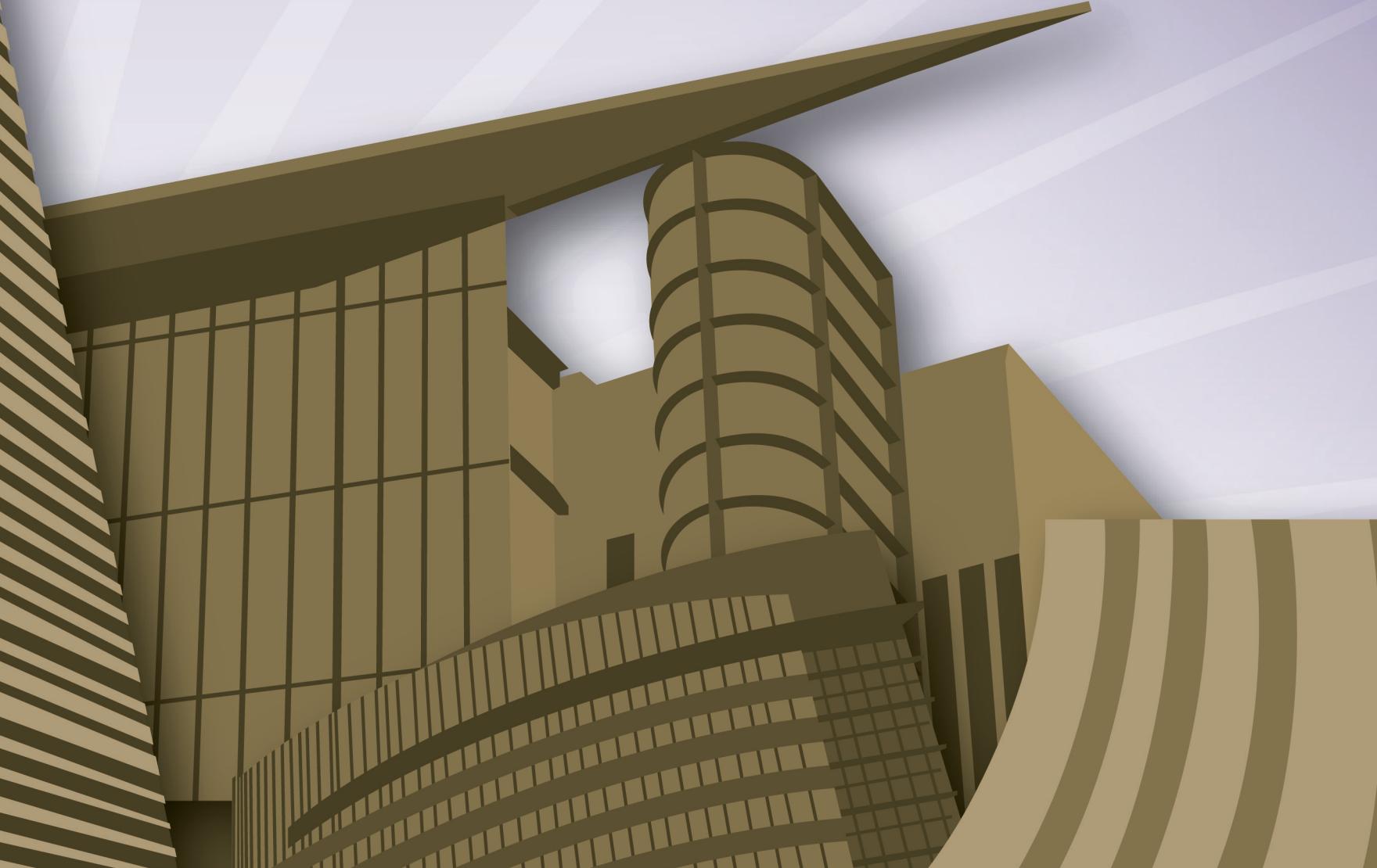
to verify transfer of knowledge, application, and learning



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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