



Adhesive Technology Seminars for Medical Device Manufacturers

Training Designed to Increase Product Quality

Training Objective

- Provide innovative, technical knowledge to enhance design and manufacturing capabilities.

Training Structure

- Training available for on-site presentation, or at a centralized location. Instruction includes hands-on demos, samples, and technical guides.

Impact

- Enhance Product Quality and Reliability
- Improve Profitability by Decreasing Manufacturing Costs
- Increase Process Efficiency
- Reduce Process Cycle Times
- Reduce or Eliminate Rejects
- Reduce Work-In-Process
- Automate Manual Processes





Seminar Menu

Adhesive Joint Design

- Types of Forces on a Bonded Joint
- Distribution of Stress and How to Manage
- Typical Examples (Cylindrical Parts, Lap Shears, Pressure Vessels)
- Adhesive Failure Modes and Troubleshooting
- Importance of “Surface Wetting”
- General Design Guidelines

Adhesive Biocompatibility & Sterilization Resistance

- ISO-10993 vs. USP Class VI Testing
- Henkel Test Program
- Review of Typical Sterilization Methods
- Adhesive Performance

Key Selection Criteria

- Uncured Properties (Viscosity, Appearance, etc.)
- Curing Properties (Fixture Time, Exotherm, etc.)
- Cured Properties (Hardness, Strength, etc.)

Designing with Light Cure Adhesives

- Overview of Light Cure Technology
- Chemistries Available
- Benefits and Considerations
- Curing Considerations (Depth, Surface, Shadowed Areas)
- Process Considerations
- Advances in LED Curing Systems

Designing with Instant Adhesives

- Overview of Instant Adhesive Technology
- Benefits and Considerations
- Selection Criteria
- Accelerators and Primers
- Process Considerations

Designing with Structural Adhesives (Epoxies, Urethanes, Hybrids)

- Selection of Optimal Adhesive/Substrate Combination
- Single and Dual Component Formulations
- Benefits and Considerations
- Process Considerations

Plastic/Adhesive Selection

- How to Select Optimal Plastic/Adhesive
- Challenges of Bonding PVC
- Stress Cracking: Causes and How to Avoid
- Surface Treatments for Improved Bonding
- Comprehensive Review of the “LOCTITE® Design Guide for Bonding Plastics”



To learn more or schedule a Medical Device Adhesive Seminar contact your Medical Specialist at 1.800.LOCTITE or visit us @ www.henkelna.com/medicaltraining

