

LOCTITE[®]

INNOVATION IS AT YOUR FINGERTIPS

Adhesive Technology Workshops *for Medical Device Designers and Manufacturers* Training Designed to Increase Product Quality

Technology Workshop Objective

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

Structure

- Hands-on format including adhesive samples and equipment. Meet with technical experts to discuss solutions to your design and production challenges. Customized for the audience through selection of topics from the Technology Menu.

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



Henkel



Technology Menu

Select from the following technology topics to create a custom, hands-on workshop.



HENKEL TECHNOLOGY TOPICS

Adhesive Joint Design and Surface Preparation

- Types of Forces on a Bonded Joint
- Adhesive Failure Modes and Troubleshooting
- Importance of "Surface Wetting"
- General Design Guidelines

Key Selection Criteria

- Uncured Properties (Viscosity, Appearance, etc.)
- Curing Properties (Fixture Time, Exotherm, etc.)
- Cured Properties (Hardness, Strength, etc.)
- ISO-10993 vs. USP Class VI Testing
- Adhesive Performance Following Typical Sterilization Methods

Plastic/Adhesive Selection

- How to Select Optimal Plastic/Adhesive
- Challenges of Bonding PVC
- Bonding to New Industry Resins
- Review of the "LOCTITE® Design Guide for Bonding Plastics"

Designing with Light Cure Adhesives

- Overview of Light Cure Technology
- Curing Considerations (Depth, Surface, Shadowed Areas)
- Advances in LED Curing Systems

Designing with Instant Adhesives

- Overview of Instant Adhesive Technology
- Accelerators and Primers
- Process Considerations

Designing with Epoxy and Urethane Adhesives

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

ADDITIONAL HENKEL CAPABILITIES

Medical Electronics

- Electrically conductive inks and adhesives, thermal management, encapsulation, underfill, solder, and film materials used in the assembly of detection and diagnostic equipment
- Customized solutions for moisture sensing applications, wearable patches, printed heaters, and force sensors

Medical Pressure Sensitive Adhesives

- A broad range of pressure sensitive adhesives for medical applications ranging from short to long term wear, aggressive adhesion to low trauma, and covering a wide variety of constructions
- Access to medical coaters and converters to meet your product's specific needs
- Henkel owned and accredited clinical facility to provide initial patient feedback for new and existing constructions

3D Printing Solutions

- Wide range of printing technologies and features including the industry's first printable silicone
- Partnership with industry leaders in printer development for ever-increasing range of capabilities
- New Advanced Customer Interaction Center in Ireland

Sonderhoff Solutions

- A complete range of advanced sealing solutions including foam sealing, gluing and potting equipment
- 2-Part Polyurethane and Silicone Solutions
- From production prototyping and pilot runs, through full-scale production available at our Sonderhoff facilities

Industry Partners

- Optional inclusion of Industry Partners including resin suppliers, automation experts and supply chain management services.

To schedule a Medical Technology Workshop contact your Medical Specialist at **1.800.LOCTITE** or visit us @ **www.henkelna.com/medicaltraining**

