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## **North American Adhesive Bonding Professional Course Syllabus**

### **1. Introduction**

Adhesive bonding technology  
Fundamental mechanisms, terms and definitions

### **2. Adhesive Types**

Adhesives without curative  
Hot-melts  
Solvent-containing wet adhesives  
Contact adhesives  
Dispersion adhesives  
Pressure sensitive adhesives

Adhesives with curative  
Epoxy resins  
Polyurethanes  
Silicones  
MS polymers  
Cyanoacrylates  
Structural Acrylics  
Anaerobics  
Radiation curing adhesives  
Other

### **3. Surface Treatment**

Metals  
Plastics  
Other

### **4. Bond Stress and Long-term Stability**

Mechanical stresses  
Environmental conditions

### **5. Testing Bonded Joints**

Exposure to controlled conditions  
Lap shear test  
Peel tests  
Other

### **6. Work, Health and Environmental Protection when using Adhesives**

Classification of hazardous substances  
Potential risks and protective measures  
Waste disposal

### **7. Bonding in Practice**

Manual processing of adhesives  
Machine processing of adhesives