



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