

## **PU 201: Polyurethane Raw Material Testing, Specifications and Performance: “The Myth and the Magic”- Course Outline**

### Introduction

- The Urethane Chemical Reaction

### Isocyanates (-NCO)

- Isocyanate Content as % NCO

### Polyols

- Hydroxyl Content (-OH)

### Other Isocyanate Methods

- Acidity as %HCl
- Viscosity
- Monomer & Isomers in polymeric MDI
- TDI Isomers
- Color Methods

### Other Polyol Methods

- Acid Number
- Basicity (Alkalinity)
- Basicity as % Nitrogen
- Water
- Blended and Formulated Polyol Methods

### Relationship between Testing and Specifications

### Applications or Performance Testing

### Conclusions and Open Discussion