



## **Course: Hose Assembly Essentials - Agenda & Content**

### Hose Applications – the Wild West

Understanding the variety and complexities of industrial hose applications, and why getting the design, specification, and fabrication of the assembly is so critical to safety

### Basic introduction to hose assemblies: *Designed for the application*

- Best practices: STAMPED and proper specification of hose assemblies – learn how a simple tool such as STAMPED can help minimize or avoid basic pitfalls in determining the optimum hose assembly for the application
- Choosing the right components and materials to best meet application requirements
  - Hose Compounds and components – tube and cover
    - Chemistry: issues such as using EPDM in oil applications (swell)
    - Reinforcements – textiles, wires
    - Cover options – corrugated, wrapped/smooth
    - Hoses for specific industries and associated industry standards: Petro Chem, Oil & Gas, Food & Beverage
  - Picking the right couplings for the application, particularly high-risk applications such as steam
  - Hose & Coupling integrity – the importance of proper attachment methods
- Putting it all together
  - Fabrication of the Hose Assembly
  - Testing of the completed assembly
  - Proper documentation

### Best practices: hose assembly installation and handling

- Hose handling and routing
- Inspections, testing, and hose management
- Trouble-shooting – why is my hose leaking?

Best practices: understanding hose design factors and how they impact your operations; what happens when hose assemblies are poorly designed, fabricated or installed

### Hose safety case studies:

- Hydroblast applications – when lives can be at risk
- Liquid vacuum operations – when environmental spills can cost a bundle

*Videos and case studies will be used to illustrate the issues; samples will be provided for hands-on learning*