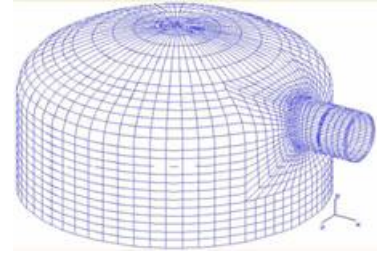


Day 1 NozzlePRO™ Basics

- Basic Nozzle Analysis
 - Satisfying the Codes
 - Volumetric Analysis
 - Steady State and Transient Heat Transfer in Nozzles
- Saddles and Pipe Shoes
 - Satisfying the Codes
 - Steady State and Transient Heat Transfer in Saddles and Pipe Shoes
- Basic Non-Linear Use
- Nonintegral Repads
- Introduction to the new Drawing Tools



Nozzle in Head of Vessel

Day 2 FEPIPE™ Basics

- FEPIPE Templates and Their Capabilities
- Multiple Nozzles and Supports
- Combining Models to Create Larger Systems
- Skirts and Static/Dynamic Seismic Analysis
- Expansion on the new Drawing Tools

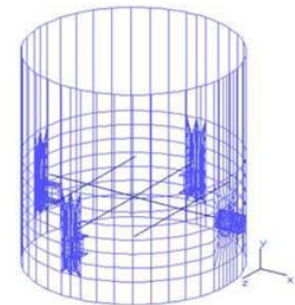


Day 3 FEPIPE™ Advanced Topics

- Establishing Noncyclic Service for Vessels & Piping Systems
- Simple Volumetric Rules of Thumb
- Non-Linear Analysis Introduction
- Section VIII Div. 2 – Specific examples for pressure vessels and piping
- Expansion on the new Drawing Tools

Day 4 New Functionality

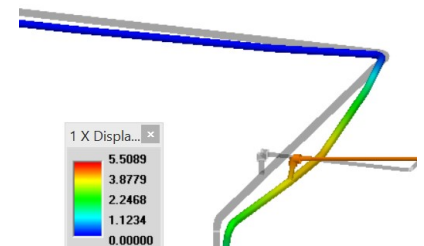
- Non-Linear Analysis
- Crack Analysis | Fitness for Service
 - Knowing when to inspect for cracks
 - Crack Prediction – how to use the FFS and Inspection Guidance
 - Crack Growth Model and Inspections
 - Fitness for Service and Linear Analysis
 - Fitness for Service and Nonlinear Analysis



Tank with Internal Supports and Piping

Day 5 New Functionality

- Point Cloud Examples
 - Establish a baseline for an installed piping system
 - Understand accuracy calibration by the laser scanner
 - Evaluating operating piping systems – what to expect
 - Verifying vessels and nozzle placement
- BOS B31 – basic fluid mechanics and common variables for:
 - Slug Flow
 - Waterhammer
 - Relief Valve Firing
 - Two Phase Flow
- Cumulative Damage and Code Compliance (PCL-Gold and CAESAR II)



Displacement due to Relief Valve Firing

Note: Items may change, be moved to different days, or skipped based on course progress and software.

REGISTRATION FORM

Module	Course	Days/Dates
Module 1	NozzlePRO Basics	Monday..... April 23, 2018
Module 2	Module 2 (+) FEPipe Basics FEPipe Advanced	Monday - Wednesday April 23 – 25, 2018
Module 3	Module 3 (+) Two Days of New Functionality	Monday - Friday April 23 – 27, 2018

	Price	M	T	W	Th	F
<input type="checkbox"/> Module 1: NozzlePRO Basics	\$ 900	•				
<input type="checkbox"/> Module 2: Above (+) FEPipe Basics FEPipe Advanced	\$ 2,700	•	•	•		
<input type="checkbox"/> Module 3: Above (+) Two Days of New Functionality	\$ 3,500	•	•	•	•	•

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Seminar Location:	PRG Training Room 11221 Richmond Ave. Suite C-103 Houston, TX 77082 281-920-9775	Recommended Hotel:	Holiday Inn Westchase 10609 Westpark Dr. Houston, TX 77042 713-532-5400
A rental car is recommended, however the hotel will provide van service to our offices if pre-arranged with the hotel upon check-in.			