

Course Summary

Monday, April 11 - Day 1 (NozzlePRO™ focus)

- Introduction to Finite Element Types
- Introduction to ASME VIII Division 2 Code Stresses
- NozzlePRO Program Overview
- Introduction to Shell Elements
- Introduction to Brick Elements
- Determining Nozzle Allowable Loads, Stiffnesses and SIFs
- Fatigue Analysis using NozzlePRO

Tuesday, April 12 - Day 2

- General FEA Introduction
- Introduction to all PRG Software Programs
- FEPipe™ Templates and Their Capabilities
- ASME Section VIII - Division 2 Code Overview
 - (see new optional **full day** coverage of this topic below)
- Nozzle Flexibilities, Allowable Loads – FEPipe specific
- Design Piping Stress Analysis Capabilities
- Exercises

Wednesday, April 13 - Day 3

- Introduction to the FEPipe String Template
- Database Operations in FEPipe
- Modeling Plate Structures and Attachments
- Axi-Symmetric Brick Models
- Addressing Heat Transfer Problems
- Introduction to Fatigue Analysis
- Stress Linearization

Thursday, April 14 - Day 4

- Introduction to Heat Exchange Analysis
- Stability Analysis
- Dynamic Response Analysis
- Half day of flexible content (Tony Paulin)

Friday, April 15 - Day 5 – **NEW!** Focus on ASME Section VIII – Division 2 Topics

- General Definitions and Failure Mechanisms
- Overview of ASME Section VIII - Div. 2, Part 5 (Design by Analysis)
- Stress Categorization & Linearization
- Practical examples with Shell and Brick Finite Element Models
- Fatigue Analysis using both Welded and Smooth Bar Methods
- Using Finite Element Methods to conform with the Code
- Explanation of stress categorization for an elastic analysis
- Tutorials to reinforce how to apply the rules
- Link stresses between failures modes and code checks

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™	Monday	April 11, 2016 (1 day)
MODULE 2:	FEPipe™	Tues.-Thurs.	April 12-14, 2016 (3 days)
MODULE 3:	ASME Section VIII – Div. 2 (Design by Analysis)	Friday	April 15, 2016 (1 day)

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.

Course Module and Cost Options		Price	M	T	W	Th	F
<input type="checkbox"/>	New FULL Seminar – ALL 3 MODULES:	\$ 3,500	•	•	•	•	•
<input type="checkbox"/>	Classic Seminar – MODULES 1&2:	\$ 2,800	•	•	•	•	
<input type="checkbox"/>	NozzlePRO™ focus – MODULE 1 ONLY:	\$ 900	•				
<input type="checkbox"/>	FEPipe™ focus – MODULE 2 ONLY:	\$ 2,400		•	•	•	
<input type="checkbox"/>	Design by Analysis – MODULE 3 ONLY:	\$ 900					•
<input type="checkbox"/>	FEPipe™ & Design by Analysis – MODULES 2,3:	\$ 2,800	•	•	•	•	

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