

## Energy Solutions International 2010 Scheduled Training

### Energy Solutions Training Schedule 2010

NOTE: A brief description of each course, including all available modules, is listed at the bottom of this document.

Location and Dates	Training Days	Training Contents
Week 1: May 4 - 11, 2010 ----- Bonita Springs, Florida, USA (Week before and during PSIG)	<b>Day 1 &amp; Day 2 :</b> <b>Day 3 &amp; Day 4:</b> <b>Day 5 :</b>	PipelineStudio Liquid Advanced Training PipelineStudio Gas Advanced Training PipelineStudio US Forum
Week 1: May 23 - 27, 2010 ----- Hotel TBA in Abu Dhabi, UAE	<b>Day 1 &amp; Day 2 :</b> <b>Day 3:</b> <b>Day 4 &amp; Day 5 :</b>	PipelineStudio Liquid Advanced Training PipelineStudio Middle East Forum PipelineStudio Gas Advanced Training
Week 1: June 7 - 11, 2010 ----- Hotel TBA in Jakarta, Indonesia (Week during Indopipe)	<b>Day 1 &amp; Day 2 :</b> <b>Day 3 :</b>	PipelineStudio Gas Advanced Training PipelineStudio APAC Forum

Location and Dates	Training Days	Training Contents
Week 1: July 5 - 9, 2010 Week 2: July 12 - 16, 2010 Week 3: July 19 - 20, 2010 ----- ESI offices in Hyderabad, India	<b>Day 1, Day 2, Day 3, Day 4 &amp; Day 5 :</b> <b>Day 6, Day 7, Day 8, Day 9 &amp; Day 10:</b> <b>Day 11 :</b> <b>Day 12 :</b>	PipelineStudio Liquid Induction and Advanced Training PipelineStudio Gas Induction and Advanced Training PipelineStudio India Forum PipelineManager India Forum
Week 1: August 23 - 27, 2010 ----- Hotel TBA in Bogota, Colombia	<b>Day 1 &amp; Day 2 :</b> <b>Day 3 &amp; Day 4:</b> <b>Day 5 :</b>	PipelineStudio Liquid Advanced Training PipelineStudio Gas Advanced Training PipelineStudio Latin America Forum
Week 1: September 20 - 24, 2010 ----- ESI offices in Calgary, Canada (Week before start of IPC)	<b>Day 1 &amp; Day 2 :</b> <b>Day 3 &amp; Day 4:</b> <b>Day 5 :</b>	PipelineStudio Liquid Advanced Training PipelineStudio Gas Advanced Training PipelineStudio Canada Forum

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Location and Dates	Training Days	Training Contents
Week 1: October 18 - 22, 2010 ----- ESI offices in Stockton, UK	<b>Day 1 &amp; Day 2 :</b> <b>Day 3 &amp; Day 4:</b> <b>Day 5 :</b>	<b>PipelineStudio Liquid Advanced Training</b> <b>PipelineStudio Gas Advanced Training</b> <b>PipelineStudio Forum</b>
Week 1: October 26 - 29, 2010 ----- ESI offices in Houston, Texas, USA	<b>Day 1 &amp; Day 2 :</b> <b>Day 3 &amp; Day 4:</b>	<b>PipelineTransporter for Gas &amp; TransactionManager Advanced Training</b> <b>PipelineTransporter for Gas &amp; TransactionManager Forum</b>
Week 1: November 15 - 19, 2010 ----- ESI offices in Houston, Texas, USA	<b>Day 1 &amp; Day 2 :</b> <b>Day 3, Day 4 &amp; Day 5:</b>	<b>PipelineStudio Liquid Advanced Training</b> <b>PipelineStudio Gas Advanced Training</b>

<b>TRAINING COST:</b>	For pricing details please view the online registration form. If you have any questions feel free to contact your regional office or you may send ESI an email at <a href="mailto:support@energy-solutions.com">support@energy-solutions.com</a> .
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Course Descriptions	
<b>PipelineStudio Gas Induction Training</b>	This course is intended for pipeline engineers who would like to build on their pipeline modeling skills using PipelineStudio <b>Gas</b> . The training sessions cover <i>all</i> areas of the simulation tools, including the Graphical User Interface, Charts, Trends, Simulation Options, Equipment, Error Handling and Configuration Management. * One or two case studies will be explored in depth.
<b>PipelineStudio Liquid Induction Training</b>	This course is intended for pipeline engineers who would like to build on their pipeline modeling skills using PipelineStudio <b>Liquid</b> . The training sessions cover <i>all</i> areas of the simulation tools, including the Graphical User Interface, Charts, Trends, Simulation Options, Equipment, Error Handling and Configuration Management. * One or two case studies will be explored in depth.

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<b>PipelineStudio Gas Advanced Training</b>	<p>This is a module based training course that can be taken separately or together. The individual module exercises that will be offered during each training session are listed above and have been preselected by the instructor in an effort to maximize the benefit and experience for all trainees.</p> <ul style="list-style-type: none"><li>Module 0G: Refresher</li><li>Module 1G: Tuning- Data Sensitivity, Gas Equations, and Equations of State</li><li>Module 2G: Capacity- Steady State Capacity and Transient Capacity</li><li>Module 3G: Survival Time</li><li>Module 4G: Thermal Effects</li><li>Module 5G: Compressors- Generic Compressor, Generic Driver, and Centrifugal Compressor</li><li>Module 6G: Quality Tracking</li><li>Module 7G: Equipments- Regulators, Resistance Element, Heater, and Cooler</li><li>Module 8G: Leak</li><li>Module 9G: Blow Down- Blow Down and Start Up</li><li>Module 10G: Relief Valve- MAOP and Relief Valve</li><li>Module 11G: Excel Add-In</li><li>Module 12G: Excel Command Line</li><li>Module 13G: User Configuration</li><li>Module 14G: PLS Liquid to Gas</li></ul>
<b>PipelineStudio Liquid Advanced Training</b>	<p>This is a module based training course that can be taken separately or together. The individual module exercises that will be offered during each training session are listed above and have been preselected by the instructor in an effort to maximize the benefit and experience for all trainees.</p> <ul style="list-style-type: none"><li>Module 0L: Refresher</li><li>Module 1L: Tuning- Data Sensitivity</li><li>Module 2L: Capacity- Steady State Capacity, Transient Capacity, and DRA Capacity</li><li>Module 3L: Thermal Effects</li><li>Module 4L: Pumps- Generic Pump, Reciprocating Pump, Centrifugal Pump</li><li>Module 5L: Equipments- Valves, Regulators, Resistance Element, and Tanks</li><li>Module 6L: Leak</li><li>Module 7L: Surge Studies</li><li>Module 8L: Relief Valve- MAOP and Relief Valve</li><li>Module 9L: Batch Tracking</li><li>Module 10L: Excel Add-In</li><li>Module 11L: Excel Command Line</li><li>Module 12L: User Configuration</li><li>Module 13L: PLS Gas to Liquid</li></ul>

NOTE: A more in-depth synopsis may be requested for any of the courses listed above by writing to us at [support@energy-solutions.com](mailto:support@energy-solutions.com).

These type of training sessions can be arranged to take place in an agreed upon location, however they generally take place on site at the customers facility or in house at a regional Energy Solutions office.