

# Energy Solutions Training Schedule 2009

## Quarter 1 : January to March

Location	PipelineStudio Training- Week 1	PipelineStudio Training- Week 2
Week 1: March 23 - 27 ----- Calgary, Canada	Day 1 & Day 2 : Gas & Liquid Induction Training Day 3, Day 4 & Day 5 : Gas & Liquid Advanced Training	n/a

## Quarter 2 : April to June

Location	PipelineStudio Training- Week 1	PipelineStudio Training- Week 2
Week 1: April 19 - 24 Week 2: April 27 - May 1 ----- London, UK	Day 1 & Day 2 : Gas Induction Training Day 3, Day 4 & Day 5 : Gas Advanced Training	Day 1 & Day 2 : Liquid Induction Training Day 3, Day 4 & Day 5 : Liquid Advanced Training
Week 1: April 13 - 17 Week 2: April 20 - 24 ----- Houston, USA	Day 1 & Day 2 : Gas Induction Training Day 3, Day 4 & Day 5 : Gas Advanced Training	Day 1 & Day 2 : Liquid Induction Training Day 3, Day 4 & Day 5 : Liquid Advanced Training
Week 1: May 10 - 14 Week 2: May 17 - 21 ----- Dubai, UAE	Day 1 & Day 2 : Gas Induction Training Day 3, Day 4 & Day 5 : Gas Advanced Training	Day 1 & Day 2 : Liquid Induction Training Day 3, Day 4 & Day 5 : Liquid Advanced Training

## Quarter 3 : July to September

Location	PipelineStudio Training- Week 1	PipelineStudio Training- Week 2
Week 1: July 6 - 10 Week 2: July 13 - 17 ----- Hyderabad, India	Day 1 & Day 2 : Gas Induction Training Day 3, Day 4 & Day 5 : Gas Advanced Training	Day 1 & Day 2 : Liquid Induction Training Day 3, Day 4 & Day 5 : Liquid Advanced Training

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## Quarter 3 : July to September

Location	PipelineStudio Training- Week 1	PipelineStudio Training- Week 2
Week 1: July 27 - 31 ----- Kuala Lumpur, Malaysia	Day 1, Day 2 & Day 3 : Gas Advance Training Day 4 & Day 5 : Liquid Induction Training	n/a
Week 1: September 21 - 25 ----- Hangzhou City, China	Day 1 & Day 2 : Gas Induction Training Day 3, Day 4 & Day 5 : Gas Advanced Training	n/a
Week 1: September 7 - 11 Week 2: September 14 - 18 ----- Rio de Janeiro, Brazil	Day 1 & Day 2 : Gas Induction Training Day 3, Day 4 Day 5 : Gas Advanced Training	Day 1 & Day 2 : Liquid Induction Training Day 3, Day 4 & Day 5 : Liquid Advanced Training

## Quarter 4 : October to December

Location	PipelineStudio Training- Week 1	PipelineStudio Training- Week 2
Week 1: October 26 - 30 Week 2: November 2 - 6 ----- France, Europe	Day 1 & Day 2 : Gas Induction Training Day 3, Day 4 Day 5 : Gas Advanced Training	Day 1 & Day 2 : Liquid Induction Training Day 3, Day 4 & Day 5 : Liquid Advanced Training
Week 1: November 16 - 20 ----- Sydney, Australia	Day 1 : Gas & Liquid Induction Training Day 3, Day 4 & Day 5 : Gas & Liquid Advanced Training	n/a
Week 1: November 30 - December 4 Week 2: December 7 - 11 ----- Houston, USA	Day 1 & Day 2 : Gas Induction Training Day 3, Day 4 & Day 5 : Gas Advanced Training	Day 1 & Day 2 : Liquid Induction Training Day 3, Day 4 & Day 5 : Liquid Advanced Training

### TRAINING COST:

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 [support@energy-solutions.com](mailto:support@energy-solutions.com).

NOTE: A brief description of each course, including all available modules, is listed below

NOTE: 'n/a' signifies that no course is scheduled for that time period or rather Not Applicable

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Brief Course Descriptions	
<b>PipelineStudio Induction</b>	<p>This course is a very popular choice for people new to PipelineStudio, as well as those new to pipeline simulation. The training session will cover <b>some</b> areas of the simulation tools, including the Graphical User Interface, Charts, Trends, Simulation Options, Equipment, Error Handling and Configuration Management.</p> <p>* No Case studies will be integrated into this training course</p>
<b>PipelineStudio Induction- Gas</b>	<p>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 <b>all</b> areas of the simulation tools, including the Graphical User Interface, Charts, Trends, Simulation Options, Equipment, Error Handling and Configuration Management.</p> <p>* One or two case studies will be explored in depth.</p>
<b>PipelineStudio Induction- Liquid</b>	<p>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 <b>all</b> areas of the simulation tools, including the Graphical User Interface, Charts, Trends, Simulation Options, Equipment, Error Handling and Configuration Management.</p> <p>* One or two case studies will be explored in depth.</p>
<b>PipelineStudio Advanced- Gas</b>	<p>This is a module based training course. The possible modular exercises that can be selected from cover a wide variety of topics including; Tuning, Gas Equations, Steady State Capacity and Transient Capacity, Survival Time, Thermal Effects, Generic Compressor and Centrifugal Compressor, Quality Tracking, Regulators, Resistance Element, Heating and Cooling, Leaks, System Blow Down and Start Up, MAOP and Relief Valve, Excel Add-In, Excel Command Line, User Configuration, PLS Transition from Liquid to Gas</p> <p>The modules that will be available at each session will vary dependent on the interest generated for that region.</p>
<b>PipelineStudio Advanced- Liquid</b>	<p>This is a module based training course. The possible modular exercises that can be selected from cover a wide variety of topics including; Data Sensitive Tuning, Steady State Capacity, Transient Capacity, DRA Capacity, Thermal Effects, Generic Pumps, Reciprocating Pumps, Centrifugal Pumps, Valves, Regulators, Resistance Elements, Tanks, Leaks, Surge Studies, MAOP and Relief Valves, Batch Tracking, Excel Add-Ins, Excel Command Lines, User Configurations, PLS Transition from Gas to Liquid</p> <p>The modules that will be available at each session will vary dependent on the interest generated for that region.</p>

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).

NOTE: Please be informed that Energy Solutions also has the capability of conducting private training sessions for those customers that would like a more personalized curriculum.

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.