

AGA/PRCI Submarine Pipeline On-Bottom Stability Software & Subsea Design Training



Why: One of the Worlds' recognized standards for the design and engineering of subsea pipelines is known as the AGA/PRCI Submarine Pipeline On-Bottom Stability (OBS) Analysis, Design Guidelines, and Software. Many subsea pipeline engineers are tasked with using the OBS software with little to no training. Many pipeline owner/operators and members of PRCI and AGA could utilize the OBS software for quality control purposes but due to the lack of training on the use of the software itself the technology is underutilized.

The purpose of this course is to provide an intense two 2-day review of basic and advanced subsea pipeline design input data requirements, with hands on experience using the OBS software and direct instructor interaction for the purposes of output analysis. A review of all new added features and capabilities of the current Version 3.0 will also be included. This is NOT a superficial overview course but rather a focused, hands on software users course to help expand the users' knowledge and productivity.

What You Will Gain from This Course:

- An understanding of the engineering principles behind subsea pipeline design, enabling you to make correct recommendations and decisions.
- The ability to do calculations and understand the codes and guidelines to follow.
- Know-how on which questions to ask
- Up to date information on the latest

developments and technologies used.

The course is designed for:

- Pipeline subsea engineers and specifically those with a need to better understand how to utilize all three levels of the OBS software.
- Engineers, technicians, and service professionals involved with the design and engineering of subsea pipelines.
- Project managers with oversight for third party engineering or maintenance.
- Government regulators and inspectors

Prerequisites: Students are required to bring their own notebook/laptop computers with the current OBS software installed. For new students without access to the software, an evaluation copy of the software will be provided 2 weeks in advance of the course for installation prior to attending the course.

Instructor: **Rick Weiss, PhD**, works as Senior Technical Leader within the pipeline discipline at Kellogg Brown & Root. He has over 30 years experience in offshore pipelines and other offshore technologies. He has been involved with the support and development of PRCI On-Bottom Stability software since 2002 including the Windows Rev. 2 release and manuals in 2002 and the recent Rev. 3 release and manuals in 2008. He has affiliations with the American Society of Mechanical Engineers and the International Society of Offshore and Polar Engineers.

Where: Technical Toolboxes
3801 Kirby Dr. #501
Houston, TX 77098

Price: \$1,295.00 per student

Day 1 Program

- Course introduction & Overview
- Oceanography and Geotechnical design considerations
- Offshore Pipeline Design Requirements & Procedures

- Pipeline Stability Concept
- Pipeline Stability in Codes & Standards
- Pipeline Installation
- Pipeline Trenching
- Pipeline Flotation, Pipeline Sinking
- Sand Waves
- Spanning and Vibration
- Wave Theory
- Flow around Pipes
- Hydrodynamic Forces
- Pipe Soil Interaction - Traditional Mohr-Coulomb Model
- Pipe Soil Interaction - Embedment Models

Day 2 Program

- Stability Analysis with AGA/PRCI OBS Software Tools Overview
- Fundamentals review, oceanography and geotechnical design considerations, hydrodynamic loads, soils resistance, computational fluid dynamics and stability predictions
- PRCI Level 3 Demonstration & Case Studies
- PRCI Level 2 Demonstration & Case Studies
- Analysis Limitations
- Summary and Review

End of training

Technical Toolboxes offers training courses in the use of our Pipeline Toolbox software and in several pipeline technical areas. These courses can also be customized to accommodate individual client company needs and delivered at your company's facilities as required.

TTI also collaborates with pipeline industry associations and engineering and consulting firms to provide concentrated training courses in Direct Assessment, Cathodic Protection, Hot-Tap Design and other pipeline technical areas. If you would like to receive specialized or on-site training for one of the courses above, please contact us at 713-630-0505 or by email at training@ttoolboxes.com.



**Please complete the attached form
and fax to TTI at 713-630-0560**

Course Cost: \$1295.00 per student

Course Date:

Name _____

Company _____

Address _____

Address _____

City, State, ZIP _____

Country _____

Phone/Mobile _____

Fax _____

E-mail _____

Payment by Credit Card

Circle One: VISA MasterCard AMEX

CC Number _____

Expiration Date _____

Signature* _____

*** By signing above I commit to paying the course fee when invoiced**

Terms and Conditions: One registration is required per person. Upon receipt of your above registration an invoice will be generated for payment. Payment is due 30 days from receipt.

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