

# Geoscience Subsurface Interpretation and Mapping Certification Training Program



How do you jump start a new hire into a contributing geoscientist to help find and develop new resources and reserves of oil and gas?

One answer is SCA's **Geoscience Boot Camp** which is an intense twelve (12) week training program composed of a combination of an actual interpretation and mapping project coupled with classroom courses. The new hires will go through a structured program of selected courses that teaches them important, fundamental interpretation, engineering and mapping skills, followed by a challenging interpretation/mapping project involving seismic data, well logs and production information.

The program is designed to quickly raise the competency level and knowledge of the participants in a short period of time.

Please refer to our website, [www.scacompanies.com](http://www.scacompanies.com) for a complete description of the program or call 713/789-2444.

# GEOSCIENCE BOOT CAMP

**WEEK 1 - August 23 - 28, 2010**

***“Structural Styles in Petroleum Exploration and Production”***  
***“Basics of the Petroleum Industry”***

**WEEK 2 - August 30 - September 3, 2010**

***“Applied Sequence Stratigraphy of Clastic Rock/Reservoirs”***

**WEEK 3 - September 7 - 10, 2010**

***“Practical Interpretation of Open Hole Logs”***

**WEEK 4 - September 13 - 17, 2010**

***“Applied Subsurface Geological Mapping”***

**WEEK 5 - September 20 - 24, 2010**

***“Overview of Seismic Exploration”***

**WEEK 6 - September 27 - October 2, 2010**

***“Seismic Interpretation Workshop”***  
***“Basic Petroleum Engineering for Non-Engineers”***  
***“Descriptive Lithology Analysis of Cuttings and Cores”***

***The six (6) weeks of training courses taught prior to the project are designed and selected to prepare the participants to meet the geological, geophysical and engineering challenges of this project, as well as lay a foundation of knowledge for a successful career.***

## **FIELD TRIPS**

***“Modern Depositional Systems” Galveston, Texas***  
***“Structural / Sequence Stratigraphy” Hill Country, Texas***

## **SIX (6) WEEK PROJECT October 4 - November 12, 2010**

This exciting six (6) week Project is divided into Five (5) Phases. It is designed to provide hands-on training that will result in the participants developing a solid foundation in geological and geophysical interpretation and mapping, as well as an understanding of the application of reservoir engineering, log analysis and risk analysis.

With the assistance of mentors, the participants will conduct a detailed interpretation and mapping project. The project is a subset of exploration acreage with nearby producing fields in an extensional tectonic setting. Data available includes: 2-D seismic, well logs, and engineering data. The participants will get an appreciation of the difference between interpretation and mapping by hand versus using a workstation and computer generated maps. They will learn very important techniques for manually interpreting well logs and seismic data, as well as, generating fault and horizon maps. These methods are vitally important and critical in many respects including the location of exploration or development wells and the accurate estimation of reserves or resources. **No one wants to drill a dry hole or have a reserves write-down!!!**

The project is conducted in a lease block that exists in an extensional tectonic basin with an abundance of normal faults providing opportunities for potential prospects. The complex geology in the project area will challenge the participants in their interpretation of both the geological and geophysical data. This type of complex geology is encountered in many areas around the world.

