



Course Overview

This course is targeted at undergraduate Geoscience students who wish to gain an appraisal of the role of seismic exploration within the Oil and Gas E&P industry.

The course has specific focus on introducing borehole seismic acquisition and processing fundamentals and will give the trainees an opportunity to shoot a real borehole seismic survey using advanced industry approved technology.



Module Topics



Seismic Theory



Acquisition



Processing

LEADERS IN BOREHOLE SEISMIC TECHNOLOGY

Modules

ATC 7

Undergraduate Seismic Short Course

Time Required: 1 Day ~09:00-17:00

Location: ASL HQ – Avalon House, Somerton Somerset – TA11 6SB

Modules:

- ATC 5.1 Foundation Seismic Exploration Principles with specific reference to borehole seismic application in subsurface exploration and monitoring.
- ATC 5.2 Simulation of a simple VSP using industry standard ACQ acquisition software.
- Lunch* *Provided by ASL*
- ATC 5.3 Practical – Field deployment of multilevel seismic tool string in to test well. Shooting and recording Zero Offset VSP using rig source sleeve gun.
- ATC 5.4 Basic overview of the ZVSP processing steps. Students process a real dataset down to common depth point (CDP) transform corridor stack and inversion – using VSProwess Software.

Trainee Group Size: 2-8

Trainees to have completed 2 years of a Geoscience degree course. Students asked to each bring laptop. PPE provided.

Prerequisite