



# GSSI West StructureScan Training Course Outline and Info Packet

## Where is the class held?

Class is generally held in Eugene, Oregon at:

Holiday Inn Express  
2117 Franklin Boulevard, Eugene, OR 97403

Some classes will be conducted at other Western Region locations and specific location information will be included in the GSSI West class schedule on our website.

## When are the classes?

The GSSI West class schedule is on our website at <http://www.geophysical.com/training.htm>.  
Class size is limited to eight students, so reserve a spot early.

You can reserve a spot by contacting the GSSI West Training Specialist, Mac McCallister at 510.914.3930 or via email at [mccallisterm@geophysical.com](mailto:mccallisterm@geophysical.com).

## What are the class times?

Classes run three days from 9 AM to 4 PM with approximately one hour for lunch. Breaks are given every hour.

## What does it cost?

Class tuition is \$800 per student. If you purchased a complete StructureScan system it came with two free class credits which can be applied to any scheduled training course offered by GSSI. You can either send two people to one class or one person to two different classes.

## Where should I stay?

The Holiday Inn Express and Suites in Eugene, OR offers a reduced rate to GSSI students who elect to stay at this hotel. Reservations must be made no later than one week prior to the class start date in order to get this reduced rate.

Holiday Inn Express and Suites  
2117 Franklin Boulevard, Eugene OR 97403  
Tel: 541.342.1243

Geophysical Survey Systems, Inc.  
12 Industrial Way, Salem, New Hampshire 03079-4843 Tel: 800-524-3011 Fax: 603-889-3984  
[sales@geophysical.com](mailto:sales@geophysical.com) [www.geophysical.com](http://www.geophysical.com)

## How far is the class location from the Airport?

Approximately 15 miles from the Eugene Airport.

## Transportation

The hotel does not operate a shuttle to and from the airport but there is a shuttle (Omni Shuttle) that will take students to the hotel. Taxi would likely be the best way but car rental at the airport is also an option.

## What should I bring?

We will supply everything you need for the course so there is no need for you to bring anything other than what you need for travel. A portion of the course required some intensive computer work. You should be familiar with working in a Microsoft Windows environment. You should be able to:

- 1** Create and name/rename a folder in windows
- 2** Move files around your computer by ‘dragging and dropping’ or cutting and pasting. The instructor may not have the time to teach you this so you should acquire this knowledge before coming to the class. The standard tutorials that come with Windows should be enough.

You may videotape or record the training if you wish. If you want to bring your personal equipment to work with, that is fine but not required. Students will be evaluated by class participation and oral examinations.

## What if I need to cancel/reschedule?

Just contact Mac McCallister and let him know 48 hours before the class. You will not be billed for the class. Failure to show without prior cancellation may result in a penalty.

## Should I plan to stay and do some touring?

Absolutely. In addition to being located in the wine-making region of central Oregon, this area offers hiking, freshwater and saltwater fishing, river rafting and snow skiing in season, all within a two-hour drive of the hotel. The rugged and beautiful Oregon coast is said to rival the best that Maine has to offer.

# Directions to Hotel

## Holiday Inn Express and Suites

### Transportation from Mahlon Sweet Field Airport (EUG)

- **Distance:** 15.0 MI/24.14 KM north west to Hotel
- **Shuttle charge (one way):** \$20.00 (USD)
- **Taxi charge (one way):** \$16.00 (USD)
- **Time by Taxi:** 20 minutes

### Driving Directions:

- 1** Turn left on Airport Road.
- 2** Turn right on Highway 99 heading east. Highway 99 will turn into 7th Avenue.
- 3** Staying in the right hand lane, it will merge into Franklin Boulevard.
- 4** The hotel is located on the left past the University of Oregon.

## Class Schedule

	<b>Morning</b>	<b>Afternoon</b>
<b>Day 1</b>	<p style="text-align: center;"><b>GPR 101</b></p> <p>An introduction to GPR method and theory as well as examples of GPR application. Topics covered include: how to read a GPR record, target ID, a discussion of survey practices, factors affecting GPR signal penetration and effectiveness, and more.</p>	<p style="text-align: center;"><b>Simple Locating</b></p> <p>Hands on locating of targets in real time and marking them on the survey surface. How to use radar to clear a location for cutting and coring, cross-polarizing the antenna for enhanced target identification.</p>
<b>Day 2</b>	<p style="text-align: center;"><b>Simple Locating Review</b></p> <p>A review of the previous afternoon's learned skills.</p> <p style="text-align: center;"><b>Advanced Target Recognition</b></p> <p>Using GPR to tell the difference between metal and air-filled PVC. Noting voids, and back of the slab. Calibrating for accurate target depth estimation.</p>	<p style="text-align: center;"><b>StructureScan Pad Data Collection and Processing</b></p> <p>Using the StructureScan pad to collect data over a 2X2 foot area. Processing and analysis of pad data to create a 3D image.</p> <p style="text-align: center;"><b>Intro to 3D Imaging</b></p> <p>Using 3D QuickDraw to create 3D data presentations and to answer specific questions.</p>
<b>Day 3</b>	<p style="text-align: center;"><b>Large-Area 3D Collection and Processing w/o the Pad</b></p> <p>Collect and process data from areas that it is impractical to collect with the scan pad.</p>	<b>Review</b>