

**Third Party GPS Training Certification
Minimum Qualifications
Texas Commission on Environmental Quality**

TCEQ OPP 8.12 requires all GPS training courses to include both lecture/classroom discussion and hands-on exercises. Table 1 contains the minimum elements that must be included in any TCEQ-recognized GPS certification training course.

Table 1 GPS Certification Training Minimum Elements	
Minimum lecture and/or demonstration elements	Minimum hands-on exercises, to be successfully completed by each student
<ul style="list-style-type: none"> Q Background of the Global Positioning System. Q GPS accuracy issues. Q Relevant Agency operating policies. Q Operation of GPS equipment, including basic troubleshooting. Q Data collection procedures. Q Differential correction, both real time processing and post processing. Q Coordinate averaging for point locations. Q Data output in formats appropriate for import to GIS or tabular databases. 	<ul style="list-style-type: none"> Q Pre-planning, including data quality objectives, equipment and materials needed, logistics of field data collection, and prediction of GPS data collection conditions. Q Navigation to a given coordinate. Q Storing and transferring raw positional data. Q Differential correction of raw data through post processing. Q Averaging corrected point data and outputting to a GIS file.
<p>Class exercises shall also include computer plotting of point data to allow students to better understand GPS accuracy issues and the effects of differential correction and point data averaging.</p>	
<p>Note:</p> <ul style="list-style-type: none"> • All certified GPS users recognized by TCEQ must be recertified every 2 years; • Sales or user demonstrations do NOT constitute GPS training; • GPS training courses should last a minimum of six to eight hours. 	

Individuals obtaining GPS certification training must verify that the instruction they have received meets the minimum elements listed in Table 1. Therefore, please fill out the attached form, along with copies of GPS training certificates, and return them to:

Mason T. Miller
 Drinking Water Protection Team
 Texas Commission on Environmental Quality
 P.O. Box 13087 (MC-155)
 Austin, Texas 78711-3087
 Fax: 512-239-4755



GPS Certification Verification Form Texas Commission on Environmental Quality

Contact Information				
GPS Training Coordinator Information			Training Provider Information	
Name			Organization Providing GPS Training	
Organization			Instructor	
Mailing Address			Course Name	
City	State	ZIP	Course Date	Course Hours
Email Address			GPS System (e.g. Trimble, Magellan, etc.)	Manufacturer Certified? Yes <input type="checkbox"/> No <input type="checkbox"/>

The following individual(s) have received GPS certification training that complies with TCEQ OPP 8.12 minimum training elements:

Name	Title

I hereby state that the information provided is true, accurate, and complete to the best of my abilities.

Signature of GPS Training Coordinator or GPS Trainer

Title

Date

Printed Name

Telephone Number

Extension

TCEQ GPS Certification Proficiency Exam Trimble Navigation Platform

Personal Information

Name			
Organization		GPS Trainer's Name	
Mailing Address			Training Date
City	State	ZIP	Telephone
Email Address			FAX

Recertification Exercise

Read the instructions carefully before you begin.

“Collect twelve GPS positions. All must be differentially corrected. You must collect:

- One (1) line,
- One (1) area, and
- Ten (10) points, of which at least one (1) point must be collected using the centroid method.

In completing this exercise, create a data dictionary using the skills you have learned. Do not copy the sample data dictionary found in the GPS manual. Create three features:

- A point feature,
 - A line feature, and
 - An area feature.
- You must create other attributes in addition to “Collector” and “Method”.

Each feature must conform to the following:

Point feature

Logging interval: 1 second
Minimum positions:60
Accuracy: Code

Line feature

Logging interval: Distance (5 feet)
Accuracy: Code

Area feature

Logging interval: Distance (5 feet)
Accuracy: Code

When collecting data, do not leave any fields blank. Differentially correct your data and export into a .dbf format.

How to Submit Your Exam

Email GPS export files (.dbf) to: gpsdata@tceq.state.tx.us

Mason T. Miller
TCEQ GPS Trainer
DWP Team (MC-R-9)
(254) 761-3037 - Voice
(254) 772-9241 - Fax