





## 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

This exam is divided into two parts: General knowledge and field demonstration. The general knowledge section tests for the data collector's general understanding of the GPS system. The field demonstration tests for the data collector's ability to collect, correct, and export GPS data to the TCEQ correctly. The exam is Pass/Fail.

### Personal Information

Name			TCEQ GPS Certification No.		
Organization			Training Source		
Mailing Address			Training Date		
City	State	ZIP	Telephone		
Email Address			FAX		

### General Knowledge Section

1. Name three types of error that can affect GPS accuracy.	Answer here
	Answer here
	Answer here
2. These coordinates are shown in what format (degree/minute/second, decimal degree, or decimal minute)?  <b>32.027578</b> <b>102.092028</b>	Answer here
3. TCEQ GPS certification allows you to provide GPS training to others? <i>True or False</i>	Answer here
4. What is the maximum PDOP you may use when collecting GPS data?	Answer here
5. How often do GPS certificate holders need to renew their certificates?	Answer here
6. What TCEQ policy governs the use of GPS technology?	Answer here
7. WAAS is a TCEQ-acceptable realtime correction source. <i>True or False</i>	Answer here
8. What is the minimum number of satellites must you have to obtain a 3D position?	Answer here
9. GPS satellites are in what kind of orbit?	Answer here
10. How do you collect an almanac? <b>Answer here:</b> _____	

11.	If the PDOP value is too high while you are trying to collect GPS data, you should increase the PDOP mask so that the receiver will start collecting data. <i>True or False.</i>	Answer here
12.	How long is an almanac considered current?	Answer here
13.	Since Selective Availability has been turned off there is no reason to differentially correct GPS data. <i>True or False.</i>	Answer here
14.	A navigation waypoint is as accurate as a differentially corrected GPS data point. <i>True or False.</i>	Answer here

### Field Demonstration Section

Collect ten (10) GPS positions. All must be differentially corrected. In so doing, create a data dictionary using the skills you have learned. Create three features: a point feature, a line feature, and an area feature. You may create whatever attributes you like so long as you also include "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 your responses to [gpsdata@tceq.state.tx.us](mailto:gpsdata@tceq.state.tx.us). Attach your GPS export files to the email. Fax or mail the written portion of the exam to:

David P Terry  
 GPS Coordinator  
 SWAP Team (MC-155)  
 (512) 239-4755 - Voice  
 (512) 239-6050 - FAX.