



## ***Certificate of Completion***

### ***GST 101 INTRODUCTION TO GIS USING QGIS***

*The bearer of this certificate has successfully completed a Continuing Education 80-hour Program for which 8.0 Continuing Education Units (CEU's) have been awarded, dated July, 2015.*

A handwritten signature in black ink, appearing to read "Phillip Davis", is positioned above the printed name.

Phillip Davis, Program Manager

## **GST 101: INTRODUCTION TO GIS USING QGIS**

**COURSE DESCRIPTION:** Introduction to the fundamentals of Geospatial Technology, including Geographic Information Systems (GIS), cartography, remote sensing, and spatial analysis through a series of lectures and hands-on computer-based exercises. This course is designed to be used as a stand-alone course to complement other disciplines or as an entry level course into a geospatial program. Course content is based upon the United States Department of Labor's Geospatial Technology Competency Model for entry level geospatial occupations including Geospatial or GIS Technicians and Technologists.

### **LEARNING OUTCOMES/COMPETENCIES:**

1. The student will describe the fundamental concepts of Geographic Information Science and Technology.
2. The student will demonstrate proficiency in the basic functions of geospatial software.
3. The student will demonstrate awareness of fundamental remote sensing and spatial analysis techniques.
4. The student will demonstrate basic proficiency in map creation and design principles, including thematic map display, employment of map projections, and cartographic design.
5. The student will demonstrate proficiency in the creation and acquisition of spatial data.