

# CAD 400: Bridging the CAD and GIS Gap in the SMCRA Workflow

The purpose of this course is to assist personnel in integrating both CAD and GIS processes into SMCRA workflows. Students will review the basic foundation of GIS and CAD, identify similarities and differences, update and maintain permit data, and manipulate spatial data and database connectivity. Exercises will include use of Title IV and V data to show mechanisms of interoperability between CAD and GIS. *Course is certified for 23.5 Professional Development Hours.*

**Duration: 3 days**

**Course Code: EBG**



## TOPICS COVERED

- ▼ Similarities and Differences in CAD and GIS
- ▼ Common Data Misconceptions
- ▼ Updating/Maintaining Permit Data
- ▼ Manipulating Spatial Data in CAD
- ▼ CAD Object Data
- ▼ FDO Connections
- ▼ SQL and SDE Databases
- ▼ Spatial Analysis

**WHO SHOULD ATTEND:** Regulatory or AML scientists with degrees in reclamation, geology, soil science, hydrology, civil or mining engineering, or related natural sciences.

**COURSE PRE-REQUISITES:** Prospective students should have attended CAD 201: Carlson Mining Site Design for Permitting and Reclamation or have a working knowledge of AutoCAD. Basic AutoCAD skills will not be covered in this course. **Class size is limited to 12-17 students, depending on location.**