



ArcPAD 10: Mobile GIS for Reclamation Mapping and Analysis

ArcPad is a mobile GIS software package developed by ESRI that is used to capture, display, analyze, and edit geographic information in the field. This focused course provides an introduction to ArcPad 10 and demonstrates some of its powerful capabilities that can be applied in the coal mining environment. Through a series of lectures and classroom/field exercises, students learn about the tools, menus, and GPS data capture capabilities that come with ArcPad. The course emphasizes best practice principles and considerations for common field tasks utilizing a number of different types of mobile devices equipped with Recreational-Grade or Mapping-Grade GPS receivers.

NOTE: Students should bring a GPS unit (PC tablet or handheld) with ArcPad 10 installed to class.

Duration: 2 days

Course Code: GAP

TOPICS COVERED

Those completing this course will be able to

- ▼ Open a map in ArcPad and add layers to it.
- ▼ Explain the different data types used in ArcPad.
- ▼ Understand ArcPad tools and menus.
- ▼ Prepare and get data for ArcPad using desktop ArcGIS applications.
- ▼ Gain a basic understanding of GPS, coordinate systems, and map projections.
- ▼ Understand the functionality of GPS preferences in ArcPad.
- ▼ Change layer symbology and map displays.
- ▼ Find and edit features in ArcPad.
- ▼ Edit and add feature attributes.

- ▼ Create a new shapefile in ArcPad.
- ▼ Add and import fields to new shapefiles.
- ▼ Create customized data collection forms in ArcPad.
- ▼ Select the appropriate type of GPS and hardware unit for specific applications.

Field Exercises: All students attending mobile computing courses must pay close attention to course requirements and bring appropriate equipment to class, wear outdoor clothing and shoes, and be prepared for inclement weather. Outdoor sessions will be held rain or shine.

COURSE PRE-REQUISITES: Prospective students should have experience with GIS and GPS. Knowledge of ArcGIS software products is highly recommended. **Class size is limited to 12–17 students, depending on location.**