



Workshop 650 – Cadastral Mapping

Course Description

This workshop introduces assessment mapping and related information. It covers the functions and types of assessment maps, mapping techniques, methods of conveying property rights, base maps, land description systems, work maps, parcel identification, mapping system maintenance, and the use of computers in mapping. Practical exercises illustrate the mapping procedures described in the text.

Objectives

On completion of Chapter 1, the student should be able to:

- Demonstrate their understanding of mapping program management

On completion of Chapter 2, the student should be able to:

- Draw and solve problems containing bearings, azimuths, field angles and curve data.
- Demonstrate comprehension of the methods used to describe property.

On completion of Chapter 3, the student should be able to:

- Demonstrate their comprehension of latitude and longitude through successful completion of the diagnostic drill
- Draw and find the location of points demonstrating their comprehension of the State Plane Coordinate System through successful completion of coordinate exercises

On completion of Chapter 4, the student should be able to:

- Demonstrate understanding and application of metes and bounds, PLSS, and Platted Subdivisions

On completion of Chapter 5, the student should be able to:

- Demonstrate an understanding of acreage determination and parcel identification systems through successful completion of quizzes and area calculation exercises

Timetable

| Topic | Time Requirement | Day Covered |
|--|------------------|-----------------|
| Chapter 1 | | |
| Orientation | 15 Minutes | Day One |
| Objectives and Major Points | 5 Minutes | Day One |
| Introduction | 5 Minutes | Day One |
| Requirements for a Successful Mapping Program – Base Maps | 30 Minutes | Day One |
| Requirements for a Successful Mapping Program – Cadastral Data | 15 Minutes | Day One |
| Requirements for a Successful Mapping Program – Parcel Identification System | 15 Minutes | Day One |
| Requirements for a Successful Mapping Program - Commitment | 10 Minutes | Day One |
| Information System | 20 Minutes | Day One |
| Summary | 5 Minutes | Day One |
| Review and Questions | 5 Minutes | Day One |
| Chapter 2 | | |
| Objectives and Major Points | 5 Minutes | Day One |
| Introduction | 5 Minutes | Day One |
| Basic Equipment – Engineering Scale | 30 Minutes | Day One |
| Basic Equipment – Protractor | 15 Minutes | Day One |
| Protractor – Understanding Degrees | 15 Minutes | Day One |
| Protractor – Measuring Angles | 30 Minutes | Day One |
| Land Measurement – Determining Distance | 30 Minutes | Day One |
| Land Measurement – Determining Direction | 120 Minutes | Day One |
| Land Measurement – Curves | 120 Minutes | Day One/Day Two |
| Summary | 5 Minutes | Day Two |
| Review and Questions | 5 Minutes | Day Two |

| Topic | Time Requirement | Day Covered |
|----------------------------------|------------------|-------------|
| Chapter 3 | | |
| Objectives and Major Points | 5 Minutes | Day Two |
| Introduction | 5 Minutes | Day Two |
| Latitude and Longitude | 30 Minutes | Day Two |
| State Plane Coordinates | 45 Minutes | Day Two |
| Summary | 10 Minutes | Day Two |
| Review and Questions | 5 Minutes | Day Two |
| Chapter 4 | | |
| Objectives and Major Points | 5 Minutes | Day Two |
| Introduction | 5 Minutes | Day Two |
| Metes and Bounds | 120 Minutes | Day Two |
| Public Land Survey System (PLSS) | 60 Minutes | Day Two |
| Platted Subdivision | 15 Minutes | Day Two |
| Summary | 5 Minutes | Day Two |
| Review and Questions | 5 Minutes | Day Two |
| Chapter 5 | | |
| Objectives and Major Points | 5 Minutes | Day Two |
| Introduction | 5 Minutes | Day Two |
| Area Calculation | 30 Minutes | Day Two |
| Parcel Identification Systems | 30 Minutes | Day Two |
| Summary | 5 Minutes | Day Two |
| Review and Questions | 5 Minutes | Day Two |