



Survey Application Online Course

Prerequisites for Completing the Caddie Survey Course

Before undertaking the Survey course, you should:

- Have access to Caddie software, a recent version, (licenced or evaluation) and an internet connection.
- Have successfully completed the Caddie Basic Online training course, Caddie Basic classroom course or have the equivalent self-taught experience.
- Have a reasonable understanding of the principles and terminology of surveying.

Downloading and opening a Caddie Course Exercise

You will become familiar with the structure of the course including the practical exercises requiring you to download and open an example drawing in Caddie and the associated questions linked to them.

- Where to find the course exercises
- How to download the Caddie .DWG course files

1. Overview of the Survey Course

- Gain and overview of the contents of the Survey Application online training
- The Survey Commands that have been changed since Caddie 25

2. Survey Mode Essentials

- The Survey Commands
 - Location of the Survey Commands
 - Loading the Survey Application (for 'Classic menu system' users)
- Setup the Survey Mode
 - Drawing prerequisites for using the Survey Mode
 - Enabling, configuring and querying the Survey Mode

3. Basic Input and Output

There are four lessons:

- Y, X, Z Input
 - The prerequisites for inputting survey data
 - Automatic insertion of Y,X,Z points from a file
 - Manually inserting points from a file
- GPS Input
 - Converting Latitude and Longitude to X and Y coordinates
 - Plotting the converted points
 - Merging Satellite Imagery with your drawing
- Coordinate text
 - Annotating coordinate points
 - Exporting points to a table and other applications
- Latitude and Longitude measure
 - Displaying and writing points as latitude and longitude
 - Measuring distances

4. Annotation

- Write joint text and write join angle text
 - Writing Join Angle Text
- Draw polar
 - Constructing a survey drawing from polar information
- Place points
 - Entering coordinate points manually using Y, X and optionally Z coordinates
- Grid lines
 - Creating an annotated Survey Grid

5. Integrating Satellite Imagery

- Satellite imagery, provided online in real-time by Microsoft Satellite (M Sat)

6. Repositioning

- How to reposition a group of objects to a known datum

7. Final Exercise

You will:

- Set up survey mode.
- Manually input coordinates using latitude and longitude and Y and X data.
- Reflect the appropriate hemisphere in coordinates.
- Plot points to grid coordinates.
- Insert satellite imagery.
- Use the world map in a drawing.
- Zoom in and refresh satellite imagery to increase detail and identify features.
- Reposition a drawing to known coordinates using a selection rectangle.
- Measure distance and join angles between two points using a variety of output options.

During the 6 Modules of the course, you will complete 15 lessons and associated questions including 6 exercises.

The course can be completed in one or multiple sessions and is equivalent to a half day classroom course. The duration will vary as individuals may take longer depending on their availability to study as well as their knowledge and skill level before starting the course. On average learners have completed the course within 3 hours of study with the maximum time taken of 5 hours.

You will have access to the course for 4 weeks from your enrolment date in which to complete the course. Once you have successfully completed and received a certificate for the course you will have unlimited access to revisit the course.