

# SURPAC FOR SURVEYORS

The Gemcom Surpac for Surveyors course is a three day course designed for all new surveyors. It covers concepts and procedures that will allow the user to perform basic functions in the system, and will serve as a basis for good survey processes in Surpac.

**Course Prerequisites:** Before taking this course, you require the following:

- Knowledge of Windows 2000, XP, or Vista Operating System.
- Knowledge of file management.
- Knowledge of ASCII format files and MS Excel.

The Surpac menu structure and graphical user interface (GUI) is similar to most Windows based packages and therefore a basic knowledge of the Windows operating system and its environment is necessary.

**Expected Outcomes:** Upon completion of this course, you will be able to accomplish the following:

- Install and license Surpac
- Customise Surpac
- Use the basic components of the system for setting up and viewing data
- Understand the data types and concepts
- Learn how to create and display a survey database
- Create new data for points, lines and surfaces
- Create and validate DTMs and solids
- Generate simple volume calculations between surfaces and within solids
- Create simple plots

*If you cannot find the content you are looking for, please contact us and we will make every effort to get you the information you need.*

## IMPORTANT INFORMATION ABOUT SUPPORT REQUESTS IN AUSTRALIA

**TELEPHONE:** 1800.GEMCOM (1800.436.266)  
**EMAIL:** support-au@gemcomsoftware.com  
**ONLINE REQUESTS:** www.gemcomsupport.com  
**OPERATING HOURS:** 6:30am – 5:00pm WST Monday–Friday  
**INFORMATION REQUIRED:** Product name, version, details of the issue and replication steps

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# Course Structure Flow

## Day 1

### Overview

Software installation and licensing  
Surpac concepts (and data types)  
The Surpac interface  
Forms and help

### Organising your data

Recommended project folder configuration  
Managing data in layers  
Saving your project settings into profiles

### Break

### Working with data

String, segment and point information  
String concepts and file structure  
Object properties  
Using the selection and orbiting tool  
Displaying your data  
Editing data

## Afternoon

### Styles

Creating your own styles for strings and points  
DTMs and 3DMs

### The create menu

Creating new points and gradients  
Basic digitising techniques  
Creating a grid

### Break

### Maths functions

Applying expressions to data



# Course Structure Flow

## Day 2

Recap	Exercises for topics covered on Day 1
Surfaces	DTM concepts Breaklines and file preparation Normalising the data
Break	
Surfaces (continued)	Creating DTMs Intersection Contouring Extracting sections under a surface Draping Reporting volumes Cut and fill

## Afternoon

Solids modelling	Use the different methods to create a solid Validate solids Edit solids
Break	
Sections and planes	Interactive method Cutting planes Viewing data on planes



# Course Structure Flow

## Day 3

Recap

Exercises for topics covered on Day 2

File tools menu

String summary and directions  
Applying a boundary  
2D transformation

*Break*

Survey database

Create a database  
Importing text files  
Displaying database

## Afternoon

Plotting

Autoplot  
Plotsheet setup

*Break*

Advanced tools

Recording a macro  
Creating a streaming file



# Registration Form

Yes, I/we would like to attend the **Surpac for Surveyors** course scheduled as follows:

Date ..... Location .....

Contact name: .....

Contact details: Telephone .....

Email .....

Company: .....

Participants: 1 ..... Position .....

2 ..... Position .....

3 ..... Position .....

4 ..... Position .....

Purchase order: .....

Please return this form via fax (08) 9420 1332 or email [training-au@gemcomsoftware.com](mailto:training-au@gemcomsoftware.com) to reserve attendance at this course. For all credit card bookings, please contact the Training Co-ordinator on 1800 GEMCOM or 1800 436 266.

## Terms and Conditions

1. A purchase order or credit card details must be provided to confirm your registration.
  2. Cancellation policy:
    - (a) 14 days or more from the training date – no cancellation fee applies;
    - (b) Less than 14 days from the training date – a cancellation fee of 50% applies.
  3. Substitution of attendees is permitted prior to the commencement of the course.
  4. Cancellations and/or substitutions must be advised in writing.
  5. Gemcom reserves the right to cancel or reschedule courses.
- I/We agree to the terms and conditions outlined above and confirm that all participants meet the course prerequisites as stated.

.....  
Signature of contact (as per registration above)

*Thank you – we look forward to working with you*

