

TCP - V 7 DIGITAL TERRAIN MODEL Online Training Service

We would like to introduce you to our new online TCP Digital Terrain Model version 7 courses, where anyone can learn to use the features of the application in an interactive and user-friendly environment and at their own pace.

Introduction
1. Managing Points
2. Contour Lines and Profiles
3. Volume Calculation
4. Image Management

Unit 2. Contour Lines and Profiles


This unit deals with the commands in relation to the creation of surfaces, the generation of contour lines and the obtainment of cross-sections.

We will describe the different options available for the creation of the **surface**, such as the choice of breaklines, contour lines, maximum side length, types of surface

We will then generate the **contour lines** on the recently created surface where we may set the interval between major and minor contours among other options.

Once the contour has been created, we will review the different options for marking the contour lines, the best known of which are line of direction, automatic....

To conclude, we will obtain the **cross-sections** from a pre-defined axis. This generation of profiles allows us to set the gap between cuts, the width on the left and right Finally, the previously generated cross-sections are drawn.



Training

This unit is composed of three case studies to be done by the student.

For each, the following information is attached:

- A PDF document with exercise to perform.
- A zip file with the files needed for the exercise.

After the work, the student may check the correction by downloading the attached solution.

The student may make queries by email at training@aplitop.com.

Practice 1

- 📄 Description
- 📄 ContourLines.T1
- 📄 Solution.T1

Practice 2

- 📄 Description
- 📄 ContourLines.T2
- 📄 Solution.T2

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- Home
- ▢ My home
- > Site pages
- > My profile
- > My courses
- > Courses
 - > MDT 7
 - > English
 - > MESEN7
 - > Participants

These courses are based on the powerful [Moodle](#) platform and may be taken using the self-learning method, adapting to the rhythm and specific needs of each participant, and enjoying the support of a tutor to deal with any doubts and queries that might arise via e-mail.

In short, these courses feature a methodology which helps facilitate the student's learning process, combining the use of interactive content with didactic tools and resources to

enhance communication, collaboration and access to information in the virtual classroom, including practical cases and self-assessment questionnaires.

These courses are geared to: public authorities, construction companies, research in relation to engineering, architecture, urban planning and companies involved in earthworks, the exploitation of quarries, mining, the environment, etc, in addition to independent professionals.

Start dates: Continuous

Duration: The duration of the course depends on the course in question, and may vary from 15 to 55 hours.

Access to the online platform is 24/7.

Doubts and queries are dealt with via e-mail during working hours.

Do I need MDT to take the course? MDT is not required to take the courses. Our web page provides you with the assessment version you need.

Unit 3. Volume Calculation

The third and final unit addresses the different methods of calculating volumes the software offers.

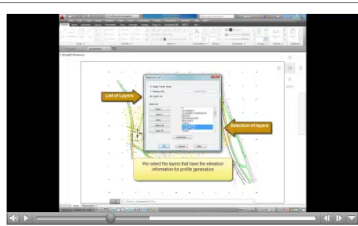
MDT features three calculation methods, volumes in accordance with differences in cross-sections, differences in surfaces and differences in meshes.

The **difference in cross sections** method bases calculations on two cross-section files generated previously using the same axis and the same contour interval. When using this method it is vital the cross-sections are wide enough to embrace the entire surface included in the calculation. The less the gap between cuts, the more accurate the calculation.

The **difference in meshes method bases calculations on two MDT mesh files** generated from the surfaces. The meshes calculated should be generated using the same cell size. The smaller the cell, the greater the accuracy. Once the calculation has been concluded, this method gives the user the chance to draw a final mesh in three shades, the common area, the cleared area and the earthworks area.

The **difference in surfaces method** is very similar to the previous method, as once the two surfaces have been selected a mesh is generated to calculate the volume. As with the previous method, the end result of the volume may be drawn in mesh form.

In brief, whenever possible, the correct manner in which to calculate volume is in accordance with the difference in cross-sections, meshes or surfaces, thereby achieving a similar result and ensuring our calculation is accurate.



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Home

- My home
- Site pages
- My profile
- My courses
- ▾ Courses
 - ▾ MDT 7
 - ▾ English
 - ▾ MESEN7
 - Participants
 - Reports
 - Introduction
 - 1. Managing Points
 - 2. Contour Lines and Profiles
 - ▾ 3. Volume Calculation