

Land measurement survey

Surveying or land surveying is the technology, profession, art and science that determines the geographical or three-dimensional positions of points and the distances and angles between them. A land surveying professional is called a land surveyor. These points are usually located on the surface of the land and are often used to establish maps and boundaries for ownership, locations, such as the design locations of structural components for construction or the surface location of geological features or other purposes required by the government. Or civil law such as the sale of property.

Surveyors work in Geodesy, Geometry, Trigonometry, Regression Analysis, Physics, Engineering, Metrology, Programming Languages and Law. They use Total stations, robotic Total stations, theodolites, GNSS receivers, retro reflectors, 3D scanners, LiDAR sensors, radios, inclinometers, handheld tablets, optical and digital levels, surveys and sub-surfaces such as sub-surfaces.

Survey has been a topic in human environmental development since the beginning of recorded history. It is required for the planning and implementation of many types of structures. It is also used in the definition of legal boundaries for transportation, communications, mapping and land ownership, and is an important tool for research in many other scientific disciplines.

