



Spatem GeoTeck Private Limited

ISO 9001:2015 Certified | MSME Registered | StartupIndia Recognized

About Us

M/S Spatem GeoTeck Pvt. Ltd. (GeoTeck™) is an ISO 9001:2015 certified, MSME-registered, and StartupIndiarecognized company, providing comprehensive geospatial solutions. We are an authorized partner of world leading technology providers, including Trimble (www.trimble.com), Hexagon Geospatial (www.hexagon.com), ideaForge (www.ideaforgetech.com), Planet (www.planet.com), and Agisoft Metashape (www.agisoft.com). Additionally, we are the industrial partner of Techno India University, West Bengal (www.technoindiauniversity.ac.in) for offering an MSc program in Geospatial Science. GeoTeck is also an associate member of Science and Technology Park, Pune (www.scitechpark.org.in). We are the training partner of National Skill Development Corporation (NSDC) (www.nsdindia.org), Govt. of India.

About the Course

Course Title:	Field Survey Assistance
Course Duration:	1 month, 2 days per week (60 hrs)
Course Timing:	9:00 AM to 5 PM
Course Fees:	Rs. 5,000/-
Certificate:	Certificate will be issued by GeoTeck after successful completion of the course
Eligibility:	10th pass or higher

Field surveyors always require technical personnel as their assistant for several purposes; e.g., minor survey jobs, handling prisms, setting up tripods/bipods, levelling, taking tape measurements, and several others. The **Field Survey Assistance** course is designed to equip participants with the foundational skills, practical knowledge, and technical proficiency required to support and execute land and engineering surveys. Surveying remains a cornerstone of numerous industries such as civil engineering, urban planning, infrastructure development, environmental studies, and resource management. With the advent of advanced technologies like Electronic Total Stations (ETS), GNSS/GPS, drones, and GIS integration, the role of a field survey assistant has evolved significantly.

This course bridges the gap between traditional surveying methods and modern, technology-driven practices. It provides hands-on training in operating basic instruments, collecting and processing field data, and understanding the fundamental concepts of mapping, measurements, and geospatial referencing. Whether learners are aspiring survey technicians or assistants to a surveyor seeking fieldwork exposure, this course is tailored to build practical competence and industry readiness.

Syllabus

Day-1 : Tape Measurements

Introduction to tape survey, fundamentals of tape survey, tape reading observation (3 m, 5 m, 30 m), use in random (meter-millimetre and inch-feet observation), unit conversion

Day-2 : Tape Measurement

Field survey, stand handling, Area survey plot calculation, drawing in CAD

Day-3 : Auto Level

Basics of auto level, introduction to staff, instrument setting and levelling, staff handling, signal system, machine handle, boxing and unboxing, reading, level flying, BM and TBM fixing

Day-4: Auto Level

Data collection, level traversing, field book maintaining, contour surveying overview, how to assist the surveyor

Day-5 : Auto Level

Case study, different type of levelling, level calculation, error handling and distribution, perception about error and mishandling and wrong work, field survey

Day-6 : Prism

Prism fundamental, overview, different type of prism and use, field practical, interchanging at a moment, prism, small prism, non prism

Day-7 : Prism

Prism fixing, manually and catcher, bubbling, height adding, Z transfer method helping, pointing, marking, different type of butterfly drawing in the field, signal passing to the surveyor

Day-8 : Setting Tripod / Bipod

Fixing tripod/bipod, auto level fixing, total station fixing

Faculties

Dr. Basudeb Bhatta, PhD in Engineering, GNSS/RS/GIS/CAD expert, DGCA certified drone pilot

Dr. Aditi Sarkar, PhD in Engineering, GNSS/RS/GIS Expert

Mr. Sankarsan Pramanik, AICTE approved Survey Engineer (construction, land survey, topography and mining expert), Executive Manager at Spatam GeoTeck Pvt Ltd, specialization in high-rise building, industrial project, land development and civil construction, embankment and jetty survey, topographical map making (worked in L&T construction, Shapoorji Pallonji, SIMPLEX, NGDCL, SRIJAN real estate, URBANA, EDEN real estate, SILVER SPRING real estate)

Mr. Arka Roy, B. Tech., DGCA certified drone pilot

Mr. Rahul Bhandari, GNSS/RS/GIS Expert, DGCA certified drone pilot

Mr. Projyal Das, GNSS/RS/GIS Expert, DGCA certified drone pilot

Admission

Admission: First-come-first-serve basis, limited seats

Link for application: [Click here](#)

Fees Payment

Once your application is accepted, details for the payment will be mailed to you. Upon completion of payment, your admission will be confirmed via email.