



Terrestrial Laser Scanning Training

Value Addition | Offline

Duration: 2 days

REGISTER NOW



KHAGOLAM

Institute of Geoinformatics

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An ISO 9001-2015 Certified Organization
Registered under Ministry of Corporate Affairs, Govt. of India



Course Information

Course Title: **Surveying with Terrestrial Laser Scanning**

Duration: **2 days**

Training Modes: **Offline**

Course Eligibility

- Civil Engineers, Diploma Engineers, I.T.I. Surveyors with 2+ years of surveying industry experiences
- Should know surveying instruments like Total Station
- Should know computers
- Should know engineering drawing fundamentals
- Knowledge of surveying and levelling concepts

Corporate and group admission only, no admission for individual

Duration and Fees:

40,000 INR, for resident Nationals of India, Nepal, Bhutan, Bangladesh, Sri Lanka and Maldives, & Myanmar.

900 USD, For Non-Residents of India



Overview

Terrestrial Laser Scanning (TLS) is an advanced surveying technology used to capture highly accurate 3D spatial data of objects and environments using laser beams. It is widely applied in land surveying, infrastructure projects, construction, heritage documentation, mining, and industrial measurements.

This course is designed to provide participants with both theoretical understanding and hands-on experience in TLS data acquisition, field workflows, and basic data processing. Participants will gain practical exposure to real-world scanning scenarios and learn how to generate accurate 3D models and maps.

You will learn to

1. Fundamentals & Survey Planning: Overview of terrestrial laser scanning, TLS working principles and scanner types, Comparison with Total Station, DGPS, and UAV LiDAR, Accuracy standards and error sources, Scan planning, target placement, and safety practices, Applications in surveying, construction, GIS, and BIM, Advantages and limitations of TLS
2. Field Practical (Full Day): Site reconnaissance and scan layout preparation, Scanner setup, levelling, and configuration, Scanner calibration and initialization, Setting scan parameters (resolution, quality), Multi-station scanning with overlap management, Field quality checks and data validation, Field data organization and documentation
3. Data Processing, Mapping & Deliverables: Importing and registering TLS point cloud data, Noise filtering, classification, and ground extraction, DTM/DSM generation and contour mapping, Volume calculations (cut & fill), Cross-sections and profile generation, Export to CAD, GIS, and client-ready formats



How to Apply

Step 1: register at: <https://www.khagolam.com/home/register>

Step 2: Check mail for course & bank details

Step 3: Transfer payment & share transaction receipt on What's App

Step 4: You will receive registration confirmation, by SMS/Call/Whats App.

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for individual*

REGISTRATION SHALL CLOSE 4 DAYS BEFORE THE START DATE. SPOT REGISTRATIONS ARE NOT ALLOWED.

FAQ's

Q: Do fees include accommodation and food?

A: No. but we can help you to get the nearest accommodation.

PEOPLE WHO KNOW TOTAL STATION, ALSO ENROLL FOR:

32 hours course: AutoCAD Civil 3D for Surveyors

Learn how to create point on grid, draw contours, I-section, cross-section, earthwork volume calculations.




Why Khagolam:

- Specialize institute for geospatial technologies
- Job oriented curriculum
- Comprehensive training material
- 100% placement assistance
- Professional Trainers
- Exposure to live projects
- Flexible timings
- Exposure to 3D GIS
- Practice, aptitude and interview rounds
- e-library facility



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Be in touch @   