



# TIBET

Pathways to your future.

**THE INSTITUTE OF BUSINESS,  
ENGINEERING & TECHNOLOGY**

# Surveying

(UK Level 4 & 5)



# INTRODUCTION

A land surveyor measures and maps land features and boundaries, providing data for civil engineering, construction, and legal purposes, using specialized equipment and software. Job responsibilities include Field surveys, data collection, map creation, boundary determination, report generation, coordination, compliance, problem solving.

A land surveyor should be up to date with technologies and software used in surveying and should also adhere to safety protocols and procedures during fieldwork







Surveying or land surveying is the technique, profession, art, and science of determining the terrestrial two-dimensional or three-dimensional positions of points and the distances and angles between them. These points may be any physical thing: a highway, culvert, ditch, storm drain inlet, or property corner. Distances and directions determine the horizontal positions of these points.

Surveying is an essential process for identifying and mapping the position of terrain. It helps with everything from determining land boundaries to ensuring that buildings are constructed according to plan. It is an ancient practice. Surveying is the scientific technique to determine the position of points and angles & distances between them. The process of surveying is used to fulfill various purposes. It is necessary for making map, planning a project etc. To accomplish all civil engineering works or projects successfully, surveying is used.

# objectives

The main objectives of surveying are:

- To determine the relative position of any objects or points on the earth.
- To determine the distance and angles between various objects.
- To prepare a map or plan to represent an area on a horizontal plane.







# Importance of Surveying

Each surveying method serves specific engineering applications. They are used for construction, management, environmental studies, etc. Broadly classifying, surveying is of two types - Geodetic Surveying and Plane Surveying.

Land surveying involves measuring and determining property boundaries. Property boundaries are the basis for all property transactions, including buying, selling, mortgaging and leasing. A secure and strong property market requires certainty in the location of property boundaries. One can avoid costly mistakes and disputes. A land survey will help one know exactly where your property lines are and prevent you from building on someone else's land or violating their property rights. It will also help you avoid trespassing or encroaching on someone's land or easement.

Surveys are essential for planning construction projects. They provide crucial data, helping developers understand the topography, soil condition, and other physical features of the land, which are vital for project planning and execution.

Surveyors determine the position of objects by measuring angles and distances. The factors that can affect the accuracy of their observations are also measured. They then use this data to create vectors, bearings, coordinates, elevations, areas, volumes, plans and maps.

The process of surveying is therefore in three stages namely:

- Taking a general view: Reconnaissance.
- Observation and Measurement: Fieldwork & measurements.
- Presentation of Data: Office work.







# Our Program

This is a UK Level 4 & 5 (Sri Lanka NVQ Level 5 & 6) program, with lectures conducted during weekends. Upon successful completion, the qualification will be awarded by Pearson Education UK, the largest qualification-awarding body in the UK. This program is equivalent to the first two years of a degree, and graduates can further their academic progression with a top-up degree.

Our programs in Surveying:

- The BTEC Higher National Diploma (HND), which is UK Level 4 & 5, equivalent to Sri Lanka NVQ Level 5 & 6.

This program is delivered by visiting Senior lecturers from recognized universities and well reputed in the Surveying industry. The lecture sessions are delivered on Saturdays and Sundays from 9.00 am to 5.00 pm and practical for the applicable modules will be conducted on selected Saturdays to encourage participation of the employed learners.

# BTEC HND Programme

The BTEC HND is a 24 month program directed towards the Engineering Surveying profession, and, on successful completion the award will be made by Pearson Education, U.K. Pearson is the largest qualification awarding body in U.K.

The programme consists of modules pertaining to GIS, GPS, Drone technology etc. and equipment training on all equipment used in the industry such as total station, drone etc. The course also includes units on Construction Technology, Science & Materials, Measurements & Estimating, Surveying, Measuring & Setting out, Advanced Surveying & Measurement, Construction Data Management etc. to name a few and will be immensely useful to those engaged in Surveying to progress their career and advance in life. As you are aware, many local and overseas employment opportunities are available for Surveyors.



**Duration: 24 Months**





# Course Fee Structure

- Registration fee is Rs. 25,000/=
- Course fee is Rs. 400,000/=
- Pearson Education registration fee is £272.00 (approximately Rs. 110,000/=)
- ❖ Pearson fee will be in addition to the registration and course fee.
- ❖ The course fee of Rs. 400,000/= can be paid in 15 monthly installments of Rs. 26,700/=.



# Why Choose Us

Our aim is to engage learners in a dynamic, interactive and reflective learning experience. During this course we shall stimulate academic engagement, develop challenging yet constructive discourse and encourage students to reflect on their own performance in preparation for a professional career. Additionally, we will encourage you to autonomous and independent learning, which will facilitate the further development of your academic skills, experiences and techniques as you progress. All in all you can look forward to an exciting learning experience with Tibet Campus.







# COURSE CONTENT

- Individual Project
- Construction Technology
- Construction Practice & Management
- Legal & Statutory Responsibilities in Construction
- Measurement & Estimation
- Financial & Business Management in Construction
- Science & Materials
- Surveying, Measuring and Setting Out
- Group Project
- Construction Data Management
- Advanced Quantities for Complex Building Project
- Surveying for Conservation Renovation and Refurbishment
- Advanced Building Information Modelling
- Contract Management
- Advanced Surveying and Measurement

# ELIGIBILITY

- Three passes for G.C.E. A/L in Mathematics Stream
- Or Completion of Construction Foundation Program
- Or any other equivalent qualifications







# TIBET CAMPUS

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