



# GeoCraft: Mapping the Future

One-day workshop by

TPL  
**maps**



ASHREI TECH

NASTP

8th October 2024

## LEARNING OUTCOMES

Equip industry professionals from diverse sectors with the skills to utilize GIS and Mapping technologies, achieving business optimization and generating insights through geo analytics for accelerated growth and outcomes.

## COURSE OBJECTIVE

Gain expertise in GIS fundamentals and advanced mapping tools to solve real-world challenges and stay ahead with emerging geospatial technologies.

## WHO SHOULD ATTEND

Tech professionals in Pakistan, including those in urban planning, environmental management, logistics, and data analysis—anyone seeking to leverage geospatial technology for strategic decision-making and operational efficiency.

## COURSE CONTENTS

### 1. Fundamentals of GIS?

- GIS definition and its applications
- Data types (Raster & Vector)
- Data collection methods
- Data Management (Tools and Platforms)
- Data analysis and visualization (Using QGIS)

#### Practical Application (Module 1):

Develop scenarios which uses GIS fundamentals in any real-world example.

### 2. Location Based Services

- What is a Location based service?
- How does location-based technology work
- Types of location-based services
  - ›Geocoding & Reverse Geocoding
  - ›Maps & Navigation
  - ›Geo-processing

#### Practical Application (Module 2):

Which LBS service should be used to accomplish the given Use Cases?

### 3. LBS Use Cases

- COVID Smart Lock Down System (NCOC)
- Crop Insurance Risk Modeling (TPLI)
- Telecom Service Delivery Monitoring (PTA)
- Delivery Optimization
- Location based Marketing

#### Practical Application (Module 3):

Interactive exercise to brainstorm LBS uses cases based on their respective industries.

## COURSE CONTENTS

### 4. TPL Maps API Portal Walk Through

- Registration process and API key
- User Dashboard Overview
- Products Overview and it's Usage
- Demos Overview
- Live Demo Implementation on JavaScript, Angular and React JS
- Challenges/Issues related to Integration

### Practical Application (Module 4):

- › Register and generate API key
- › Run demos of APIs

### 5. Training Session Hands on practice on LBS Platform

- Single page web app with TPL Maps Initialization
- Map Events
- Implementation of Search API Functionality
- How to visualize warehouse locations along on Map
- Points as Clusters
- How to implement Routing and find optimization route between multiple points
- How to Overlay multiple layers over map
- Working with Polygon, Polyline & Layers
- Markers and Custom Markers
- Using GeoJSON with TPL Maps
- HeatMap Layer

## TRAINERS



### Omair Khan

Chief Technology Officer  
TPL Maps

Omair Khan is an accomplished Chief Technology Officer with over 20 years of experience in technology and data analytics. His tenure at leading organizations like TPL Maps, United Bank Limited, and Teradata has equipped him with a deep understanding of the intricacies of LBS technologies, data analytics, and their strategic application in driving business value.

With a proven track record in leading multidisciplinary teams and fostering a culture of innovation, Omair excels at bridging the gap between complex technical concepts and practical implementation. As a trainer, his expertise will empower learners to design, develop, and deploy cutting-edge LBS solutions that address real-world challenges and drive tangible business outcomes.



### Bilal Sipra

Head of Software Development  
TPL Maps

Highly Skilled and accomplished Head of Software Development with a proven track record of leading teams to deliver innovative software solutions.

Bilal Asghar Sipra have 11 years of experience specializing in software development, Software Architecture, Project Management, Cloud Technology, GIS technology and Data Science, he has a strong history of executing complex projects to design, test and deliver innovative software solutions to enterprise clients.

## TRAINERS



### Shahzad Bacha

Head of Enterprise Data  
TPL Maps

Shahzad Bacha is a seasoned GIS and Spatial Data expert with over eight years of experience in geospatial technology and data management. His extensive work with leading organizations has honed his expertise in designing, developing and deploying enterprise-scale mapping applications and spatial data solutions.

Shahzad excels at simplifying complex geospatial concepts, making them accessible and actionable for diverse teams. As a trainer, his deep knowledge and hands-on experience will empower learners to create innovative GIS solutions that solve real-world problems and drive impactful business outcomes.

## WORKSHOP FEE

**PKR 22,500** per participant + SST

Inclusive of the certificate, full-day meals and business networking.

**10% discount** on a group of 3 or more participants

Send your name, designation, email address, mobile number and CNIC for registration to

**Talha Shabbir**

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