GeoDashboard Design for M&E Training Course

Professional Development Training Course Outline

Category	Monitoring and Evaluation	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In the rapidly evolving field of Monitoring and Evaluation (M&E), data visualization and geospatial intelligence have become critical for effective decision-making. GeoDashboard Design for M&E Training Course equips participants with advanced skills to integrate geospatial data into interactive dashboards, enabling real-time program monitoring, performance tracking, and evidence-based decision-making. Leveraging cutting-edge GIS tools, data analytics, and visualization techniques, this course emphasizes practical applications for enhancing program transparency, accountability, and efficiency.

Participants will gain hands-on experience in designing intuitive dashboards that translate complex spatial and non-spatial datasets into actionable insights. Through interactive case studies, participants will learn to integrate diverse M&E data streams, apply geospatial analytics, and create dynamic dashboards that empower stakeholders to make data-driven decisions. This course bridges the gap between geospatial technology and M&E best practices, making it essential for professionals seeking to enhance program impact, optimize resource allocation, and support strategic planning.

Programme Curriculum

GeoDashboard Design for M&E Training Course

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10 days

Course Objectives

By the end of this training, participants will be able to:

1. Master geospatial data integration for M&E systems using GIS platforms.
2. Design interactive and intuitive dashboards for real-time program monitoring.
3. Apply advanced data visualization techniques for decision support.
4. Leverage geospatial analytics for performance tracking and trend analysis.
5. Integrate multi-source datasets for holistic program evaluation.
6. Automate reporting and visualization workflows for efficiency.
7. Utilize spatial analytics to identify program gaps and intervention areas.
8. Enhance stakeholder communication through visually impactful dashboards.
9. Apply predictive analytics and scenario modeling in M&E dashboards.
10. Ensure data quality, accuracy, and reliability for geospatial outputs.
11. Embed real-time monitoring capabilities into program dashboards.
12. Develop actionable insights to guide policy and operational decisions.
13. Implement security, privacy, and ethical standards in geo-dashboard design.

Target Audience

1. M&E Specialists and Managers
2. GIS Analysts and Data Scientists
3. Program Coordinators and Field Officers
4. Policy Makers and Government Officials
5. Data Visualization Experts
6. Development Practitioners
7. Research and Evaluation Consultants
8. Non-Governmental Organization (NGO) Program Leads

Course Modules

Module 1: Introduction to GeoDashboard Design

- Overview of geospatial M&E systems
- Key components of a dashboard
- Trends in GIS-driven M&E
- Benefits of interactive dashboards
- Case Study: Mapping COVID-19 interventions

Module 2: Fundamentals of GIS for M&E

- GIS concepts and terminologies
- Spatial data types and sources
- Mapping program activities and outputs
- Coordinate systems and projections
- Case Study: GIS mapping of water supply projects

Module 3: Data Collection & Integration

- Collecting geospatial and tabular data
- Data cleaning and validation
- Combining multiple datasets
- API integrations for real-time updates
- Case Study: Integrating health facility data

Module 4: Dashboard Design Principles

- User-centered design techniques
- Visual hierarchy and layout optimization
- Choosing appropriate charts and maps
- Color theory and accessibility
- Case Study: Designing dashboards for donor reporting

Module 5: Data Visualization Techniques

- Time-series mapping
- Heatmaps and choropleth maps
- Interactive charts and tables
- Dynamic filters and drill-down features
- Case Study: Visualizing education program reach

Module 6: Real-Time Monitoring

- Setting up live data feeds
- Streaming sensor and mobile data
- Alerts and notifications
- Dashboard refresh strategies
- Case Study: Tracking emergency response teams

Module 7: Spatial Analysis for M&E

- Geospatial statistics and clustering
- Hotspot and density analysis
- Proximity and buffer analysis
- Geocoding and reverse geocoding
- Case Study: Malaria intervention site selection

Module 8: Advanced Dashboard Features

- Drill-down and drill-through functionality
- Interactive storytelling
- Scenario modeling and forecasting
- KPI calculation and tracking

- Case Study: Predicting program performance outcomes

Module 9: Automating Dashboard Workflows

- Scheduling reports and updates
- Automating data transformations
- Linking dashboards with M&E databases
- API-based automation
- Case Study: Automated NGO program monitoring

Module 10: Mobile and Web Dashboard Deployment

- Responsive dashboard design
- Mobile accessibility and UX
- Publishing dashboards online
- User access management
- Case Study: National vaccination campaign dashboard

Module 11: Data Quality and Governance

- Ensuring data accuracy and consistency
- Metadata management
- Version control and auditing
- Ethical use of geospatial data
- Case Study: Data validation in nutrition surveys

Module 12: Security and Privacy in GeoDashboards

- Securing sensitive geospatial data
- Access control and authentication
- Data anonymization techniques
- Compliance with data protection laws
- Case Study: Protecting patient data in health dashboards

Module 13: Predictive Analytics in M&E

- Introduction to predictive modeling
- Forecasting program outcomes
- Risk assessment with geospatial data
- Scenario planning and decision support
- Case Study: Predicting drought-affected regions

Module 14: Stakeholder Communication

- Designing dashboards for multiple audiences
- Simplifying complex data for non-technical users
- Storytelling with maps and charts
- Feedback loops and participatory evaluation
- Case Study: Presenting dashboard insights to donors

Module 15: Capstone Project

- End-to-end dashboard development

- Integrating spatial and non-spatial data
- Customization for program-specific needs
- Peer review and feedback sessions
- Case Study: Multi-sectoral program dashboard

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price

21 Sep 2026	02 Oct 2026	Online	$2,000
21 Sep 2026	02 Oct 2026	Physical	$3,000
21 Sep 2026	02 Oct 2026	Physical	$0
21 Sep 2026	02 Oct 2026	Physical	$0
21 Sep 2026	02 Oct 2026	Physical	$0
21 Sep 2026	02 Oct 2026	Physical	$0
21 Sep 2026	02 Oct 2026	Physical	$0
21 Sep 2026	02 Oct 2026	Physical	$0

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com