Data Quality Frameworks in 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 today’s results-driven development landscape, high-quality data is the backbone of effective Monitoring and Evaluation (M&E) systems. Data Quality Frameworks in M&E Training Course equips professionals with advanced knowledge and practical skills to ensure accuracy, completeness, consistency, and timeliness of program data. Participants will gain a comprehensive understanding of data governance, quality assessment tools, and reporting standards, enabling evidence-based decision-making that enhances program impact.

This course emphasizes the application of internationally recognized frameworks and best practices in data quality assurance. Through hands-on exercises, real-world case studies, and interactive discussions, participants will learn how to detect, prevent, and mitigate data quality issues, implement continuous monitoring strategies, and foster a culture of accountability and transparency in M&E processes.

Programme Curriculum

Data Quality Frameworks in M&E Training Course

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Course Objectives

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

1. Understand the fundamentals of Data Quality Management (DQM) in M&E systems.
2. Apply WHO, UN, and OECD data quality standards for program evaluation.
3. Identify and assess data quality dimensions: accuracy, validity, reliability, timeliness, completeness.
4. Implement data quality assurance (DQA) protocols across multiple M&E programs.
5. Conduct data verification and validation exercises using digital tools.
6. Analyze and interpret data quality issues using statistical and visualization techniques.
7. Develop data governance policies to enforce quality standards.
8. Integrate real-time monitoring systems for timely decision-making.
9. Design risk-based approaches to minimize errors in data collection and reporting.
10. Leverage cloud-based and automated tools for quality monitoring.
11. Apply case study-based learning to solve common M&E data challenges.
12. Evaluate the impact of data quality on program performance and funding decisions.
13. Build a data-driven culture within organizations to sustain quality improvement.

Target Audience

1. M&E Officers and Specialists
2. Program Managers
3. Data Analysts and Statisticians
4. Project Evaluators
5. Research Coordinators
6. Policy Advisors
7. Development Practitioners
8. Donor and Funding Agency Staff

Course Modules

Module 1: Introduction to Data Quality in M&E

- Importance of high-quality data in program evaluation
- Data quality dimensions
- Common challenges in data quality management
- Case Study: UNICEF’s M&E data improvement strategy
- Identifying quality gaps in sample datasets

Module 2: Data Governance and Policies

- Principles of data governance in M&E
- Designing data quality policies and SOPs
- Compliance with international reporting standards
- Case Study: World Bank’s data governance framework
- Drafting a data governance plan

Module 3: Data Quality Assessment Tools

- Overview of DQA tools and frameworks
- Automated vs manual assessment methods
- Data profiling and anomaly detection techniques
- Case Study: USAID DQA tool application in health programs
- Using Excel and Power BI for DQA

Module 4: Accuracy and Reliability Checks

- Techniques to ensure data accuracy
- Reducing bias and measurement errors
- Cross-verification methods for reliability
- Case Study: Gavi immunization data verification
- Accuracy scoring of survey data

Module 5: Completeness and Timeliness

- Evaluating data completeness in M&E datasets
- Timeliness metrics for reporting and decision-making
- Strategies for improving submission timelines
- Case Study: Global Fund timely reporting improvement
- Monitoring timeliness using dashboards

Module 6: Data Validation Techniques

- Rule-based validation and logical checks
- Statistical validation methods
- Real-time validation in digital surveys
- Case Study: Validation of HIV program datasets
- Implementing validation rules in sample data

Module 7: Risk-Based Data Quality Management

- Identifying high-risk areas for data errors
- Designing mitigation strategies
- Prioritizing quality interventions
- Case Study: Risk-based DQA in malaria programs
- Risk assessment of M&E datasets

Module 8: Continuous Monitoring and Improvement

- Establishing feedback loops for data quality
- Using KPIs and metrics for monitoring
- Continuous improvement frameworks
- Case Study: Continuous DQA in WASH programs
- Setting up a DQA monitoring plan

Module 9: Integrating Technology in DQA

- Cloud-based data quality solutions
- Mobile and IoT data quality management

- Automation of routine checks
- Case Study: Digital dashboards for COVID-19 tracking
- Using data quality software for monitoring

Module 10: Data Visualization for Quality Insights

- Visualizing data quality metrics
- Dashboards and scorecards for decision-making
- Storytelling with data quality information
- Case Study: Visual analytics for maternal health M&E
- Building dashboards in Tableau/Power BI

Module 11: Auditing and Reporting Data Quality

- Planning and conducting data audits
- Reporting quality findings to stakeholders
- Recommendations for remedial action
- Case Study: Data audits in education programs
- Creating a DQA audit report

Module 12: Ethical Considerations in Data Quality

- Privacy, confidentiality, and security concerns
- Ethical frameworks in data collection and handling
- Avoiding manipulation of datasets
- Case Study: Ethical dilemmas in refugee program data
- Developing ethical DQA guidelines

Module 13: Capacity Building and Staff Training

- Training strategies for improving data quality
- Building a quality-focused organizational culture
- Peer learning and mentoring approaches
- Case Study: Staff training for improved health reporting
- Designing a training plan for M&E teams

Module 14: Advanced Analytics and Predictive Quality

- Using AI and ML to detect data quality issues
- Predictive models for error detection
- Advanced statistical quality assessment
- Case Study: Machine learning in education M&E
- Building predictive quality models

Module 15: Case Studies and Capstone Project

- Real-world examples of data quality improvement
- Cross-sectoral learning from health, education, and agriculture
- Hands-on application of course concepts
- Capstone project: Designing a full DQA framework
- Peer review and feedback session

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
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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

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