Training Course on Numeracy Leadership: Strengthening Math Instruction

Professional Development Training Course Outline

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

Course Introduction

In today’s rapidly evolving educational landscape, numeracy leadership is essential for transforming math instruction across classrooms and improving student performance. Training Course on Numeracy Leadership in Strengthening Math Instruction equips school leaders, instructional coaches, and educators with research-based strategies, data-driven decision-making skills, and innovative instructional techniques to lead with clarity and confidence. By deepening understanding of effective math teaching, this course bridges the gap between curriculum standards and classroom practice, fostering a strong culture of mathematical excellence.

Participants will gain hands-on experience with differentiated instruction, formative assessment tools, and collaborative leadership models designed to advance equity, engagement, and achievement in math education. Through practical modules, reflective practices, and interactive learning, this course empowers leaders to drive change, mentor peers, and align teaching with best practices in mathematics. This training is ideal for anyone striving to build a sustainable numeracy culture in their school or district.

Programme Curriculum

Training Course on Numeracy Leadership in Strengthening Math Instruction

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Course Objectives

Participants will be able to:

1. Implement evidence-based numeracy leadership practices.
2. Integrate formative assessment strategies to inform math instruction.
3. Utilize data analytics to guide curriculum and instruction.
4. Promote math equity and inclusion in diverse learning environments.
5. Apply instructional coaching models for mathematics educators.
6. Foster a growth mindset among teachers and students.
7. Design differentiated math interventions for student success.
8. Lead effective math-focused professional learning communities (PLCs).
9. Improve teacher capacity in mathematical reasoning and fluency.
10. Align instruction with national and global math standards.
11. Cultivate collaborative leadership in math education teams.
12. Evaluate the impact of innovative teaching tools on math learning.
13. Create a vision for long-term math achievement and improvement.

Target Audiences

1. K-12 Math Teachers
2. Instructional Coaches
3. School Administrators
4. Curriculum Coordinators
5. Education Policy Makers
6. District Math Supervisors
7. Education Consultants
8. Professional Development Coordinators

Course Duration: 10 days

Course Modules

Module 1: Foundations of Numeracy Leadership

- Understanding numeracy leadership roles
- Research-based math leadership models
- Identifying instructional priorities in math
- Establishing school-wide numeracy goals
- Leadership self-assessment tools
- **Case Study**: Transforming a low-performing school’s math outcomes

Module 2: Curriculum Alignment & Instructional Design

- Mapping curriculum to standards
- Backward design in math units
- Scaffolding complex math concepts
- Integrating real-world applications
- Math across the curriculum

- **Case Study**: Standards-based redesign in middle school math

Module 3: Formative Assessment for Learning

- Designing actionable assessments
- Using exit tickets and quick checks
- Analyzing student misconceptions
- Data-driven instructional shifts
- Tools for real-time feedback
- **Case Study**: Using assessment cycles in elementary math

Module 4: Building Professional Learning Communities (PLCs)

- Structuring effective math PLCs
- Agenda planning and norms
- Peer coaching protocols
- Sharing data and student work
- Building collaborative inquiry
- **Case Study**: A district's PLC model for math success

Module 5: Differentiated Math Instruction

- Grouping strategies by readiness
- Tiered lessons and resources
- Culturally responsive math practices
- Leveraging adaptive technologies
- Tracking student progress
- **Case Study**: Multi-tiered math support in urban schools

Module 6: Coaching for Math Excellence

- Coaching cycle components
- Giving effective feedback
- Co-teaching and modeling
- Video reflection protocols
- Building trust with educators
- **Case Study**: A coach's journey in high school math

Module 7: Equity in Mathematics

- Addressing systemic barriers
- Culturally relevant pedagogy
- Inclusive math materials
- Empowering underrepresented groups
- Equity audits in math classrooms
- **Case Study**: Equity transformation in rural districts

Module 8: Growth Mindset and Math Identity

- Mindset theory in math
- Classroom language and feedback
- Student goal setting strategies
- Celebrating mistakes and effort
- Parent involvement in mindset work
- **Case Study**: Math identity shift in middle grades

Module 9: Leadership for Math Innovation

- Introducing new teaching tools
- Supporting blended learning
- Flipped classroom strategies
- Game-based learning in math
- Ensuring tech equity
- **Case Study**: Implementing math tech across a district

Module 10: Data-Driven Decision Making

- Sources of math data
- Building data literacy in teams
- Instructional dashboards
- Guiding interventions with data
- Celebrating progress milestones
- **Case Study**: Data deep dives in PLC meetings

Module 11: Supporting Early Numeracy

- Early math milestones
- Play-based numeracy strategies
- Family engagement in early learning
- Using visuals and manipulatives
- Building number sense
- **Case Study**: Kindergarten numeracy leap year plan

Module 12: Mathematical Practices & Fluency

- Standards for Mathematical Practice (SMPs)
- Reasoning and modeling
- Discourse routines and prompts
- Procedural fluency vs. conceptual understanding
- Planning math talks and routines
- **Case Study**: Fluency initiative in upper elementary

Module 13: Math Lesson Planning Excellence

- Unpacking learning objectives
- Lesson tuning protocols
- Use of anchor tasks and journaling
- Balancing procedural and conceptual goals
- Incorporating student voice
- **Case Study**: Rebuilding math lessons post-COVID

Module 14: Leadership for Change Management

- Leading instructional shifts
- Managing resistance and fear
- Change communication strategies
- Building shared ownership
- Long-term strategic planning
- **Case Study**: Math change leadership in a charter network

Module 15: Sustaining and Scaling Math Improvement

- Monitoring implementation fidelity
- Feedback loops and check-ins

- Leadership pipeline development
- Continuous improvement cycles
- Sharing success stories
- **Case Study**: Scaling a district-wide math reform model

Training Methodology

- Interactive workshops and breakout sessions
- Case study analysis and role-playing
- Video modeling and peer observations
- Online collaboration via LMS and discussion boards
- Resource sharing and action plan development
- Continuous feedback and coaching opportunities

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:

Register Online Now

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