Learning Analytics Dashboards Design Training Course

Professional Development Training Course Outline

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

Course Introduction

In today's data-driven education systems, the ability to design and interpret Learning Analytics Dashboards is a vital skill for educators, administrators, and instructional designers. Learning Analytics Dashboards Design Training Course delivers a comprehensive and hands-on training on developing intelligent, user-centered, and responsive dashboards to visualize learner performance, engagement, and progress. Using modern data visualization tools, predictive analytics, and user experience (UX) principles, participants will gain practical insights and real-world skills to enhance decision-making processes in educational settings.

This training program aligns with global edtech trends, focusing on real-time analytics, AI-powered educational insights, and evidence-based learning interventions. By the end of the course, participants will be empowered to design custom dashboards that align with institutional goals, learner needs, and compliance standards. With a strong emphasis on case-based learning, data storytelling, and interactive visualizations, learners will be equipped to drive transformation in digital education environments.

Programme Curriculum

Learning Analytics Dashboards Design Training Course

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Course Objectives

Participants will be able to:

1. Understand the fundamentals of learning analytics and dashboard design.
2. Identify key metrics and KPIs for student engagement and success.
3. Integrate AI and machine learning in learning dashboards.
4. Apply UX/UI design principles for dashboard usability.
5. Develop dashboards using tools like Power BI, Tableau, Google Data Studio.
6. Interpret real-time learner data for instructional decisions.
7. Utilize predictive analytics to forecast learner outcomes.
8. Customize dashboards for institutional reporting and accreditation.
9. Apply data ethics and privacy in dashboard design.
10. Build interactive dashboards that support adaptive learning.
11. Conduct usability testing on dashboards.
12. Align dashboard outputs with curriculum and assessment goals.
13. Use dashboards to support personalized learning pathways.

Target Audiences

1. Education Technology Specialists
2. Data Analysts in Education
3. Instructional Designers
4. Academic Administrators
5. Learning Management System (LMS) Coordinators
6. Online Course Developers
7. University Faculty & Lecturers
8. Policy Makers in Education

Course Duration: 10 days

Course Modules

Module 1: Introduction to Learning Analytics

- Definition, scope, and significance
- Types of learning data
- Stakeholders in learning analytics
- Introduction to dashboard platforms
- Data literacy for educators
- **Case Study**: Using LMS data for course improvement

Module 2: Identifying Key Performance Indicators (KPIs)

- Selecting relevant learning metrics
- Benchmarking academic performance
- Analyzing engagement and retention
- Attendance and participation data
- Visualizing completion rates

- **Case Study**: KPI dashboards in a university setting

Module 3: Data Collection and Integration

- Data sources: LMS, SIS, third-party tools
- APIs and data extraction techniques
- Cleaning and transforming data
- Integrating diverse datasets
- Using cloud-based data pipelines
- **Case Study**: Integrating SIS data into Tableau dashboards

Module 4: Dashboard Design Principles

- Information architecture and layout
- Color theory and visual consistency
- UX design best practices
- Storyboarding for dashboards
- Designing for accessibility and inclusion
- **Case Study**: Designing a student-facing dashboard

Module 5: Tools for Dashboard Development

- Power BI setup and customization
- Tableau dashboards for education
- Google Data Studio for real-time reporting
- Comparison of tools: strengths and weaknesses
- Embedding dashboards into LMS platforms
- **Case Study**: Real-time dashboard using Power BI

Module 6: Predictive Analytics in Learning Dashboards

- Basics of predictive modeling
- Early alert systems for at-risk students
- Forecasting performance trends
- AI integration in dashboard workflows
- Evaluating predictive models
- **Case Study**: AI-powered predictions in student success

Module 7: Personalization and Adaptive Learning

- Personalized content recommendations
- Learning pathways and branching
- Real-time content adjustment
- Dashboards that support student agency
- Equity in personalization
- **Case Study**: Adaptive dashboards in K-12 settings

Module 8: Data Visualization Techniques

- Bar charts, heatmaps, and scatter plots
- Interactive filters and drill-downs
- Visual hierarchy and storytelling
- Comparative and trend analytics
- Dashboards for mobile and desktop
- **Case Study**: Interactive dashboard for STEM courses

Module 9: Privacy and Ethics in Learning Analytics

- FERPA, GDPR, and compliance issues
- Ethical use of student data
- Informed consent and transparency
- Mitigating algorithmic bias
- Building trust through transparency
- **Case Study**: Ethical issues in a university analytics project

Module 10: Real-Time Dashboards and Alerts

- Setting up live data feeds
- Alerts and notifications
- Monitoring student activity in real-time
- Decision-support features
- Managing data latency issues
- **Case Study**: Real-time dashboard in online courses

Module 11: Institutional Reporting and Accreditation

- Dashboards for administrators and deans
- Reporting academic performance trends
- Compliance reporting
- Supporting accreditation audits
- Role-based access control
- **Case Study**: Accreditation dashboard for academic institutions

Module 12: User Testing and Feedback

- Conducting usability testing sessions
- User personas and journey mapping
- Iterative dashboard improvement
- Heatmaps and A/B testing
- Feedback loops and improvement
- **Case Study**: Refining dashboards based on student feedback

Module 13: Integrating Dashboards with LMS

- Embedding dashboards in Moodle, Canvas, Blackboard
- SSO and user authentication
- Synchronizing course data
- LMS analytics vs external dashboards
- Custom widgets and plugins
- **Case Study**: Canvas dashboard integration for student analytics

Module 14: Monitoring Equity and Inclusion

- Disaggregating data by demographics
- Highlighting equity gaps
- Culturally responsive data displays
- Inclusive dashboard design practices
- Using data for social justice in education
- **Case Study**: Equity dashboard in a community college

Module 15: Capstone Project: Design and Present a Dashboard

- Select a real-world scenario
- Choose relevant data sources

- Build a functional dashboard
- Present to a panel for feedback
- Reflect on design process and challenges
- **Case Study**: Final project presentations and peer review

Training Methodology

- Interactive hands-on lab sessions
- Real-world case study analysis
- Live demos and guided tool walkthroughs
- Group collaboration and peer review
- Capstone project for applied learning
- Access to dashboard design templates and tools

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

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