Tableau Data Modeling Training Course

Professional Development Training Course Outline

Category	Business Intelligence	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Tableau has revolutionized the field of data visualization and business intelligence, empowering organizations to transform raw data into actionable insights. With the increasing demand for data-driven decision-making, proficiency in Tableau data modeling is essential for professionals seeking to enhance their analytical capabilities. Tableau Data Modeling Training Course equips learners with practical skills in building efficient data models, optimizing data connections, and creating insightful visualizations that drive strategic business outcomes. Participants will gain hands-on experience in integrating diverse data sources, mastering complex calculations, and implementing advanced data modeling techniques to solve real-world challenges.

In addition to technical expertise, this course emphasizes the strategic role of data modeling in organizational decision-making. Learners will develop a strong foundation in designing scalable, maintainable, and high-performing data models. Through interactive case studies and project-based learning, participants will understand how to manage large datasets, identify data quality issues, and apply best practices to optimize performance. By the end of this training, participants will be able to contribute meaningfully to business intelligence initiatives, enabling organizations to achieve operational efficiency, informed decision-making, and measurable business growth.

Programme Curriculum

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Course Objectives

1. Understand the fundamentals of Tableau data modeling and visualization.
2. Develop skills in connecting and integrating multiple data sources.
3. Master data preparation and transformation techniques for effective modeling.
4. Design scalable and high-performing data models.
5. Implement advanced calculations, joins, and blending in Tableau.
6. Optimize dashboards for performance and user experience.
7. Apply best practices in managing data quality and integrity.
8. Explore real-world case studies to enhance analytical problem-solving.
9. Utilize parameters and dynamic controls for interactive reporting.
10. Leverage Tableau Prep for automated data cleaning and transformation.
11. Develop storytelling skills using Tableau visualizations.
12. Implement security and governance strategies in data models.
13. Gain confidence in making data-driven business decisions.

Organizational Benefits

- Improved data-driven decision-making capabilities.
- Enhanced efficiency in data analysis and reporting processes.
- Streamlined integration of multiple data sources.
- Reduced errors and improved data quality.
- Optimized performance of dashboards and reports.
- Empowered employees with actionable insights.
- Accelerated business intelligence initiatives.
- Increased ROI through informed decisions.
- Standardized data modeling practices across teams.
- Strengthened organizational analytics maturity.

Target Audiences

1. Data Analysts seeking advanced Tableau skills.
2. Business Intelligence Developers.
3. Data Scientists and Statisticians.
4. Reporting Specialists and Dashboard Developers.
5. Business Managers and Decision Makers.
6. IT Professionals supporting analytics initiatives.
7. Students and fresh graduates aiming for BI careers.

8. Professionals transitioning into data roles.

Course Duration: 5 days

Course Modules

Module 1: Introduction to Tableau Data Modeling

- Overview of Tableau architecture and data modeling concepts
- Understanding Tableau data connections and extract vs. live connections
- Data types, hierarchies, and metadata management
- Key considerations in building effective data models
- Hands-on exercises on connecting sample datasets
- Case Study: Creating a basic sales data model for a retail company

Module 2: Data Preparation and Transformation

- Cleaning and transforming raw data for Tableau analysis
- Using Tableau Prep for ETL processes
- Handling nulls, duplicates, and inconsistent data
- Data reshaping techniques for reporting
- Combining multiple datasets for integrated analysis
- Case Study: Preparing customer data for a loyalty program dashboard

Module 3: Joins, Blends, and Relationships

- Understanding joins: inner, left, right, and full outer
- Difference between data blending and joins
- Creating relationships for multi-source datasets
- Optimizing joins for performance
- Best practices for large datasets
- Case Study: Merging sales and marketing datasets for unified insights

Module 4: Advanced Calculations and Functions

- Creating calculated fields and table calculations
- Level of Detail (LOD) expressions for granular analysis
- Using date, string, and numerical functions effectively
- Conditional calculations for dynamic reporting
- Performance considerations in complex calculations
- Case Study: Calculating monthly growth trends for sales performance

Module 5: Parameters and Dynamic Controls

- Introduction to parameters and their use cases
- Creating interactive dashboards with parameter controls
- Dynamic filtering and scenario analysis
- Combining parameters with calculated fields
- Enhancing user experience with interactive elements
- Case Study: Building a dynamic sales target dashboard

Module 6: Dashboard Design and Optimization

- Best practices for dashboard layout and design
- Performance optimization strategies
- Managing large datasets in dashboards
- Visual storytelling and user-focused design
- Interactive filters, tooltips, and actions
- Case Study: Designing an executive dashboard for operational insights

Module 7: Data Governance and Security

- Implementing row-level security and permissions
- Managing data sources and extracts
- Ensuring data quality and integrity
- Documentation and standardization of data models
- Auditing and monitoring data usage
- Case Study: Securing sensitive employee data in dashboards

Module 8: Real-world Applications and Capstone Project

- End-to-end Tableau data modeling project
- Integrating multiple datasets for comprehensive analysis
- Designing dashboards with advanced calculations and controls
- Presenting actionable insights to stakeholders
- Feedback and iteration on project deliverables
- Case Study: Capstone project – Complete sales and marketing analytics solution

Training Methodology

- Interactive instructor-led sessions with practical demonstrations
- Hands-on exercises with real datasets for experiential learning
- Step-by-step guidance for building complex data models
- Individual and group assignments to reinforce concepts
- Use of real-world case studies to apply theoretical knowledge
- Continuous Q&A sessions to clarify doubts
- Project-based learning for applied skill development
- Assessment and feedback to ensure competency

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	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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

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