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| **Module 1: Fundamentals and Getting Started (6 hours)** |
| **Hour 1-2:** Introduction to Tableau |
| Overview of Tableau and its use cases |
| Installing Tableau Desktop |
| Navigating the Tableau interface |
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| **Hour 3-4:** Data Connection and Basics |
| Connecting to different data sources |
| Basics of data preparation and cleaning |
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| **Hour 5-6:** Basic Visualizations |
| Creating bar charts, line charts, and scatter plots |
| Understanding marks and dimensions |
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| **Module 2: Advanced Visualizations and Data Modeling (6 hours)** |
| **Hour 7-8:** Filters and Interactivity |
| Implementing filters for data manipulation |
| Building interactive dashboards |
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| **Hour 9-10:** Advanced Chart Types |
| Exploring advanced visualizations like heat maps and treemaps |
| Using dual-axis charts for more complex visualizations |
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| **Hour 11-12:** Calculations and Expressions |
| Introduction to calculated fields and table calculations |
| Leveraging functions for data manipulation |
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| **Module 3: Dashboard Development (6 hours)** |
| **Hour 13-14:** Level of Detail (LOD) Expressions |
| Understanding and using LOD expressions for detailed analysis |
| Incorporating LOD in dashboards |
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| **Hour 15-16:** Data Blending and Joins |
| Connecting multiple datasets |
| Exploring joins and data blending techniques |
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| **Hour 17-18:** Introduction to Parameters |
| Using parameters for dynamic visualizations |
| Creating parameter-driven calculations |

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| **Module 4: Advance Dashboard Development and Optimization (6 hours)** |
| **Hour 19-20:** Advanced Dashboard Design |
| Design principles for effective dashboards |
| Best practices for dashboard layout and formatting |
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| **Hour 21-22:** Performance Optimization |
| Tips for optimizing Tableau performance |
| Extracts vs. live connections |
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| **Hour 23-24:** Automation and Integration |
| Automating data updates and dashboard refreshes |
| Integrating Tableau with other tools |
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| **Module 5: Special Topics and Advanced Techniques (6 hours)** |
| **Hour 25-26:** Real-world Projects and Case Studies |
| Hands-on projects to apply learned concepts |
| Review of real-world Tableau use cases |
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| **Hour 27-28:** Python Integration in Tableau |
| Embedding Python scripts in Tableau |
| Leveraging Python for advanced analytics |
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| **Hour 29-30:** Tableau Server Basics |
| Introduction to Tableau Server and Online |
| Publishing and sharing Tableau workbooks |
| User permissions and security best practices |