Accessibility in Data Visualization for Diverse Audiences Training Course

Professional Development Training Course Outline

Category	Research and Data Analysis	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today's data-driven world, the ability to present information visually is not just a convenience—it's a necessity. However, the true power of data visualization lies in its accessibility to all audiences, including those with diverse abilities. Accessibility in Data Visualization for Diverse Audiences Training Course is meticulously crafted to bridge the gap between advanced data design and inclusivity, ensuring that visual narratives are not only compelling but universally understandable. Using cutting-edge tools and inclusive strategies, participants will learn how to make data visualizations equitable, effective, and accessible to everyone.

This training emphasizes real-world applications of accessible data visualization through hands-on practice, expert guidance, and interactive modules. It targets professionals in data science, education, UX/UI design, marketing, and policy who need to communicate data insights clearly and inclusively. As organizations increasingly prioritize diversity, equity, and inclusion (DEI), this course empowers learners to lead with empathy and precision in digital communication.

Programme Curriculum

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Course Objectives

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

1. Understand the fundamentals of accessible data visualization.
2. Apply inclusive design principles in charts, graphs, and dashboards.
3. Analyze the needs of diverse audiences including visually impaired users.
4. Utilize assistive technologies to enhance data consumption.
5. Integrate color-blind-friendly palettes in visual outputs.
6. Create screen reader-compatible data visualizations.
7. Implement universal design strategies in analytics reporting.
8. Evaluate the effectiveness of accessibility testing tools.
9. Build low-vision-friendly infographics.
10. Design for neurodivergent audiences using cognitive load principles.
11. Optimize interactive dashboards for keyboard navigation.
12. Conduct user experience (UX) audits for accessibility.
13. Champion data equity and inclusion in digital communication.

Target Audiences

1. Data Scientists & Analysts
2. UX/UI Designers
3. Government and Policy Makers
4. Educators and Academic Researchers
5. Marketing & Communication Professionals
6. Web Developers & Software Engineers
7. Accessibility Advocates
8. DEI Officers and Organizational Leaders

Course Duration: 5 days

Course Modules

Module 1: Foundations of Accessible Data Visualization

- Introduction to accessibility in data
- Importance of inclusivity in visual communication
- Types of disabilities and how they affect data interpretation
- Accessibility regulations (WCAG, ADA, Section 508)
- Tools and technologies for accessibility
- **Case Study:** Redesigning a dashboard for low-vision users

Module 2: Color and Contrast for Inclusion

- Understanding color perception and vision deficiencies
- Selecting accessible color palettes
- High contrast vs. low contrast designs
- Tools to test and correct color accessibility
- Avoiding information redundancy with colors
- **Case Study:** Color transformation of a public health infographic

Module 3: Screen Reader and Keyboard Navigation

- Structuring visualizations for screen readers
- Importance of alt text and captions
- Navigable tables and charts using keyboard only
- Best practices for ARIA labels
- Testing screen reader compatibility
- **Case Study:** Making a COVID-19 dashboard screen reader-friendly

Module 4: Inclusive Infographic and Chart Design

- Cognitive load and visual hierarchy
- Designing simple and scannable charts
- Fonts, sizing, and annotation for clarity
- Static vs. dynamic infographic challenges
- Accessibility in storytelling with data
- **Case Study:** Creating an infographic for neurodivergent audiences

Module 5: Tools and Platforms for Accessible Visualization

- Accessibility features in Power BI, Tableau, and Excel
- Open-source accessibility plugins
- Integrating accessibility in development workflows
- Automating accessibility checks
- Selecting the right tool for your audience
- **Case Study:** Comparing accessibility features in Tableau vs. Power BI

Module 6: Evaluating and Testing Accessibility

- Manual vs. automated accessibility testing
- Common evaluation frameworks (WAVE, AXE)
- User testing with individuals with disabilities
- Accessibility scorecards and metrics
- Iterative design based on feedback
- **Case Study:** Conducting an accessibility audit on a government report

Module 7: Universal Design and Cognitive Accessibility

- Principles of universal design
- Designing for memory, attention, and comprehension
- Layout strategies for cognitive ease
- Accommodating neurodiverse learners
- Layered data presentation techniques
- **Case Study:** Rebuilding an educational dashboard with universal design

Module 8: Driving Organizational Change through Accessibility

- Embedding accessibility in data culture
- Stakeholder engagement and buy-in strategies
- Developing accessibility policies and training
- Building cross-functional accessibility teams
- Case documentation and knowledge sharing
- **Case Study:** Scaling accessibility initiatives in a large enterprise

Training Methodology

- Interactive workshops and hands-on labs

- Real-world data visualization redesign exercises
- Group discussions and peer reviews
- Tool-specific walkthroughs with demos
- Accessibility simulation and user feedback sessions

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

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000

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

Register Online Now

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