REDCap for Clinical Research Data 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

REDCap (Research Electronic Data Capture) has revolutionized clinical research data management by providing a secure, web-based platform designed for efficient data collection, storage, and analysis. REDCap for Clinical Research Data Training Course empowers researchers, data managers, and clinical teams to harness REDCap's full potential, improving data integrity, regulatory compliance, and workflow efficiency. By mastering REDCap, participants will streamline project management, accelerate clinical trials, and ensure high-quality, reproducible research outcomes.

In today's digital healthcare landscape, proficiency in REDCap is critical for success in clinical research. The course combines practical, hands-on exercises, real-world case studies, and interactive sessions to build skills in electronic data capture, database design, longitudinal study management, and regulatory-compliant reporting. Participants will leave equipped to implement best practices, optimize data workflows, and leverage REDCap to enhance decision-making and patient outcomes.

Programme Curriculum

REDCap for Clinical Research Data Training Course

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Course Duration

5 days

Course Objectives

1. Master REDCap platform for clinical research data collection and management
2. Develop secure and compliant electronic data capture systems
3. Implement longitudinal and multi-site study designs
4. Enhance clinical trial workflow efficiency and data quality
5. Conduct advanced data validation and error checking
6. Create dynamic surveys and patient-reported outcome tools
7. Integrate REDCap with other research and analytics platforms
8. Manage user roles, permissions, and audit trails
9. Apply regulatory compliance standards
10. Automate reporting and generate real-time dashboards
11. Utilize branching logic, calculated fields, and automated notifications
12. Conduct practical case studies to solve real-world clinical research problems
13. Optimize REDCap usage for evidence-based decision-making and research scalability

Target Audience

1. Clinical research coordinators
2. Data managers and clinical data specialists
3. Principal investigators and study directors
4. Biostatisticians and data analysts
5. Clinical trial monitors and auditors
6. Healthcare IT and informatics professionals
7. Graduate students and research fellows
8. Regulatory and quality assurance officers

Course Modules

Module 1: Introduction to REDCap and Clinical Data Management

- Overview of REDCap platform and architecture
- Key features and benefits in clinical research
- Data security, privacy, and compliance protocols
- Workflow integration for clinical trials
- **Case Study:** Implementing REDCap for a multi-center oncology study

Module 2: Project Setup and Database Design

- Creating and configuring new REDCap projects
- Building forms, fields, and instruments
- Field types, branching logic, and calculated fields

- Customizing survey layouts for patient engagement
- **Case Study:** Designing a longitudinal study database for cardiology research

Module 3: Data Collection & Electronic Surveys

- Building web-based surveys and patient-reported outcomes
- Survey invitations, reminders, and tracking responses
- Ensuring data accuracy through real-time validation
- Mobile data collection best practices
- **Case Study:** Remote patient monitoring survey implementation

Module 4: User Management and Security

- Managing user roles and permissions
- Audit trails and activity logs
- Data access restrictions for compliance
- Implementing multi-site access controls
- **Case Study:** Multi-site clinical trial with controlled user access

Module 5: Longitudinal and Repeated Measures Studies

- Understanding events and arms in REDCap
- Setting up follow-up visits and timelines
- Linking participant data across timepoints
- Managing missing data and dropouts
- **Case Study:** Longitudinal diabetes cohort study

Module 6: Data Quality, Validation, and Cleaning

- Automated data quality rules and alerts
- Data discrepancy resolution workflows
- Importing and exporting datasets for analysis
- Ensuring consistency for statistical analysis
- **Case Study:** Data cleaning in a vaccine trial dataset

Module 7: Advanced Features and Integrations

- Calculated fields, branching logic, and automated alerts
- REDCap API for integration with EHRs and analytics platforms
- Real-time dashboards and reporting
- Custom modules and external applications
- **Case Study:** Integrating REDCap with a hospital EHR system

Module 8: Reporting, Analytics, and Regulatory Compliance

- Generating real-time and scheduled reports
- Data export for SAS, R, and SPSS
- Regulatory reporting for audits and inspections
- Best practices for documentation and compliance
- **Case Study:** Preparing FDA-compliant clinical trial reports

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

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

Start Date	End Date	Location	Price
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:

Register Online Now

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