MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

NGO Management and Policy Development

Data Analysis Using Epi-Info

Prepared as a professional course profile for delegate review, sponsorship approval and organisational training planning.

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2739	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course

View Online Course Page

Course Overview

The Data Analysis Using Epi-Info course offered by Magna Skills is designed to provide participants with practical training in using Epi-Info software for epidemiological data analysis. Epi-Info is a free software package developed by the Centers for Disease Control and Prevention (CDC) for public health professionals to conduct data entry, management, and analysis. This course covers essential concepts, techniques, and tools for data analysis, including data entry, cleaning, manipulation, visualization, and interpretation using Epi-Info.

Course Outcomes

1. **Introduction to Epi-Info Software:** Familiarize participants with the features, functions, and interface of Epi-Info software for data analysis.
2. **Data Entry and Management:** Learn how to create data entry forms, import data from various sources, and manage datasets efficiently within Epi-Info.
3. **Data Cleaning and Quality Assurance:** Develop skills in identifying and resolving data entry errors, inconsistencies, and missing values to ensure data quality and integrity.
4.

Descriptive Statistics and Data Visualization: Understand how to generate descriptive statistics, frequency distributions, and summary tables, and create graphs and charts to visualize data trends and patterns.

5. **Analytical Techniques:** Explore advanced analytical techniques supported by Epi-Info, including cross-tabulation, chi-square tests, logistic regression, and survival analysis.

Course Outline / Curriculum

Module 1: Introduction to Epi-Info Software

- Overview of Epi-Info software features and capabilities
- Installation and setup of Epi-Info on Windows operating system

Module 2: Data Entry and Management

- Creating data entry forms using Form Designer
- Importing data from Excel, CSV, and other formats into Epi-Info

Module 3: Data Cleaning and Quality Assurance

- Identifying and correcting data entry errors and inconsistencies
- Performing data validation checks and data cleaning procedures

Module 4: Descriptive Statistics and Data Visualization

- Generating descriptive statistics, frequency distributions, and summary measures
- Creating graphs, charts, and tables to visualize data distributions and trends

Module 5: Analytical Techniques

- Conducting basic statistical analyses, including cross-tabulation and chi-square tests
- Introduction to advanced analytical techniques supported by Epi-Info, such as logistic regression and survival analysis

Module 6: Case Studies and Practical Exercises

- Applying Epi-Info software to real-world data analysis tasks and scenarios
- Hands-on exercises and case studies to reinforce learning and practice skills

Module 7: Data Interpretation and Reporting

- Interpreting analytical results and drawing conclusions from data analysis
- Communicating findings effectively through reports, presentations, and data summaries

Module 8: Quality Assurance and Best Practices

- Implementing quality assurance measures and best practices in epidemiological data analysis
- Documentation, version control, and data security considerations

Module 9: Advanced Topics in Epi-Info

- Exploring additional features and functionalities of Epi-Info for specialized analyses
- Customization options, scripting, and integration with other software tools

Module 10: Future Trends and Emerging Technologies

- Overview of emerging trends and technologies in epidemiological data analysis
- Opportunities and challenges in leveraging new tools and techniques for public health research and surveillance

The Data Analysis Using Epi-Info course equips participants with the knowledge and skills needed to conduct epidemiological data analysis effectively using Epi-Info software. Through a combination of theoretical learning, practical exercises, and case studies, participants will gain hands-on experience in data entry, cleaning, analysis, visualization, interpretation, and reporting, enabling them to contribute to evidence-based decision-making and public health research initiatives.

Target Audience

- Researchers
- Data Collectors
- Research Analysts
- HODs
- Clinicians
- Programme Managers
- Inspectors
- Database Managers
- Market Researchers
- Clinical and Medical researchers
- Scientists

Key Course Benefits

Work-Ready Skills

Delegates leave with practical tools, templates and methods they can apply immediately at work.

Better Institutional Results

The programme supports stronger planning, reporting, compliance, accountability and service delivery.

Sponsor-Friendly

This document is designed to help supervisors, HR units and sponsors approve delegate participation quickly.

Professional Recognition

Delegates receive training documentation and a certificate of completion after successful participation.

Our Training Centres & Delivery Options

Magna Skills offers flexible delivery through face-to-face training centres across Africa and beyond, plus Online / E-Learning for delegates who prefer remote participation.

Southern Africa

Practical training destinations with strong travel access and delegate support.

- Pretoria, South Africa
- Vic Falls, Zimbabwe
- Livingstone, Zambia

East Africa

Popular regional centres for government, NGO and donor-funded project teams.

- Kigali, Rwanda
- Kampala, Uganda
- Nairobi,
- Zanzibar, Tanzania

West Africa & Islands

Strategic locations for regional networking and executive capacity building.

- Accra, Ghana
- Port Louis, Mauritius

International Executive Venue

Premium destination training for senior teams and international delegates.

- Dubai, United Arab Emirates

Online / E-Learning

Attend from anywhere through live online, blended or self-paced learning options.

- Online, E-Learning
- Remote Teams
- Flexib

Organisation-Based Training

Magna Skills can also arrange dedicated in-house training for ministries, NGOs and companies.

- Onsite
- Custom Dates
- Group Training

Ready to Nominate Delegates?

Use the links below to register, review the live course page or contact Magna Skills for organisation-based training support.

Register / Apply Online | **View Full Course Page**

About Magna Skills

Magna Skills Development Institute provides practical capacity building programmes for government departments, NGOs, public institutions, donor-funded projects and private sector professionals across Africa. Our training approach combines expert facilitation, real workplace case studies, practical tools, post-training support and professional documentation that helps organisations strengthen staff performance and service delivery.

Government Training | NGO Capacity Building | Corporate Workshops | Online Learning | Face-to-Face Training | Certifica

Approval & Authorisation Form

This section may be completed by the organisation, department, HR office, finance office or sponsor approving delegate participation. It can be attached to an internal memo, procurement request or training approval submission.

Organisation / Department	
Delegate Name(s)	
Approved Course	Data Analysis Using Epi-Info
Preferred Delivery Mode	☐ Online ☐ Face-to-Face ☐ Organisation-Based Training
Preferred Training Venue / Date	
Estimated Number of Delegates	
Budget / Vote Number	
Contact Person	
Email / Mobile	

Authorised Name _____ Signature / Stamp _____ Date _____