# €TRAINING

## Skills of Data Collection, Analysis and Reporting

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## Introduction:

The course aims to provide a superior specialization that allows access to a new level of knowledge and serves as a program for continuing education for professionals who need to develop the skills that this new title also provides. And interest in technology management and data analysis huge analyzes in many branches of knowledge, especially those related to social sciences.

## Course Objectives:

At the end of this course the participants will be able to:

- Provide the trainees with the necessary knowledge and information on the most important macroeconomic and social data and indicators, and the skills of analyzing the economic and social data and methods of presenting it.
- Explain the types, sources, and divisions of economic data at the level of the economy or sector, how to obtain it from its various sources, the methods for collecting this data, and the mechanism for tabulating it.
- Helping the trainees in how to define the goals of the economic and social analysis process, and then helping them to determine the required data and its sources, the ways of collecting them easily and with the least costs and the least time, and then determining the indicators that must be calculated so that they are employed in a manner that serves the goal of the data analysis process.
- Providing the trainees with methods and skills for writing and presenting the results of the analysis in the form of reports in a manner that increases their utilization rates.

## Targeted Audience:

- Organizations and the General Statistics Department.
- Department of preparing the annual report in those institutions, and department of economic and social studies.
- Central banking departments, studies, and planning departments in government institutions, banking and non-banking institutions, and Arab investment promotion organizations.
- Department of preparing annual reports in social work institutions and all entities whose nature of work necessitates analyzing economic data and writing reports.
- The field of economic media.

## Course Outlines:

### Unit 1:

- Technologies for big data analysis
- Statistical learning and decision-making.
- Social and economic networks.

### Unit 2:

- Slandered economy and big data.
- Business management.

- Manage and store big data.
- Extract data and texts.

## Unit 3:

- New trends in data mining.
- Technical statistics with inaccurate information.
- Optimization techniques with inaccurate information.

## Unit 4:

- Statistical learning and decision-making.
- Simulation tools and big data and sampling.
- Time series analysis.
- Decision making and game theory.

## Unit 5:

- Finance and econometrics with high-frequency data.
- Data mining applications for the tourism industry.
- Human Resource Management.
- Health Organization Management.