Scandinavian Academy

for Training and Development AB

Course: AI Driven Data Analytics for Auditing Excellence

Code	City	Hotel	Start	End	Price	Language - Hours
DAI-926	Florence (Italy)	Hotel Meeting Room	2026-04-27	2026-05-01	5950 €	En - 25

Introduction

This course equips auditors and financial professionals with advanced data analysis skills tailored for the auditing field. Participants will learn how to use modern analytical tools, AI techniques, and statistical methods to analyze, visualize, and interpret data efficiently ensuring accuracy, compliance, and data-driven decision-making in auditing processes.

Course Objectives

- Apply advanced data analysis techniques specifically for auditing tasks.
- Use AI and machine learning tools to detect anomalies, assess risks, and improve audit accuracy.
- Collect, clean, and analyze financial and operational data for audit readiness.
- Visualize and communicate audit findings effectively.
- Ensure compliance through data-driven audit insights.

Training Methodology

- Interactive lectures & discussions
- Real-life audit case studies
- Hands-on training using Excel, Power BI, and AI tools
- Group workshops and simulation exercises

Course Outline

Module 1: Introduction to Data Analysis in Auditing

- Role of data analytics in modern auditing
- Key challenges & opportunities in audit data analysis
- Overview of analytical & AI-based audit tools

Module 2: Data Collection & Cleaning for Audits

- Sources of audit & financial data
- Data cleaning, standardization & validation for compliance
- Preparing datasets for AI-based analysis

Module 3: Descriptive Analysis for Auditing

- Identifying key audit indicators
- Statistical summaries & variance analysis
- Visualizing audit trends & irregularities

Module 4: AI and Machine Learning in Auditing

- Using AI for fraud detection & anomaly analysis
- Predictive modeling for risk assessment
- Case studies: AI-driven audit insights

Module 5: Statistical Process Control for Audit Quality

- Root cause analysis in compliance failures
- Control charts for financial processes
- Six Sigma principles for continuous audit improvement

Module 6: Exploratory Data Analysis (EDA) for Audits

- Correlation & regression in financial auditing
- Segmentation analysis for risk profiling
- Time-series forecasting for financial audits

Module 7: Data Visualization & Audit Reporting

- Building audit dashboards with Power BI & Tableau
- Storytelling with audit data
- Best practices for presenting findings to management

Module 8: Hands-on Projects & Audit Case Studies

- Real-world auditing projects with datasets
- Team-based analysis of fraud detection cases
- Final audit report presentations

The Scandinavian Academy for Training and Development adopts the latest scientific and professional methodologies in training and human resource development, aiming to enhance the efficiency of individuals and organizations. Training programs are delivered through a comprehensive approach that includes:

- Theoretical lectures supported by PowerPoint presentations and visual materials (videos and short films).
- Scientific evaluation of participants before and after the program to measure progress and knowledge acquisition.
- Brainstorming sessions and practical role-playing to simulate real-life scenarios.
- Case studies tailored to align with the training content and participants work nature.
- Assessment tests conducted at the end of the program to evaluate the achievement of training objectives.

Each participant receives the training material (both theoretical and practical) in printed form and saved on a CD or flash drive. Detailed reports, including attendance records, final results, and overall program evaluations, are also provided.

Training materials are prepared professionally by a team of experts and specialists in various fields. At the end of the program, participants are awarded a professional attendance certificate, signed and accredited by the Scandinavian Academy for Training and Development.

Program Timings:

- 9:00 AM to 2:00 PM in Arab cities.
- 10:00 AM to 3:00 PM in European and Asian cities.

The program includes:

- A daily buffet provided during the sessions to ensure participants comfort.