# Auditing with Data Analytics Course

Leverage data analytics to enhance audit effectiveness by identifying patterns, anomalies, and actionable insights.

Group classes in Live Online and onsite training is available for this course. For more information, email onsite@graduateschool.edu or visit: https://www.graduateschool.edu/courses/auditing-with-data-analytics

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# Course Outline

**Module 1: Data Analytics Overview**
- Define data analytics and its relevance in government auditing.
- Understand the stages of the data analytics lifecycle.
- Identify benefits and risks of data analytics in audit practice.
- Explore how data analytics supports audit objectives and efficiency.

**Module 2: Planning for Data Analytics**
- Integrate data analytics into the audit planning process.
- Establish objectives and define relevant data requirements.
- Assess risks and identify questions data analytics can help answer.

**Module 3: Understanding the Data**
- Learn how to locate, access, and evaluate data sources.
- Understand structured vs. unstructured data.
- Assess data completeness, reliability, and relevance for audit use.

**Module 4: Preparing and Cleaning Data**
- Apply data cleaning techniques to prepare datasets for analysis.
- Identify and resolve common data quality issues.
- Transform data for audit analytics using appropriate tools.

**Module 5: Conducting the Analysis**
- Select appropriate data analysis techniques for different audit goals.
- Use tools to perform basic analytics and identify anomalies.
- Interpret analytical results in context of audit objectives.

**Module 6: Communicating Results**
- Visualize data findings effectively for stakeholder reporting.
- Incorporate analytics results into audit documentation and reports.

- Ensure clarity and credibility in presenting audit evidence derived from data.