

Data Analytics & AI — Introductory Seminar

Duration: 90 minutes

Delivery Mode: Online via Microsoft Teams

Presented by: Quality Science Systems Consulting Group

Website: <https://qualitysciencesystems.com>

Seminar Agenda

Time	Topic	Description
00:00 – 00:15	<u>AI Prompting Basics</u>	Learn how to interact with AI tools using structured prompts for analytics and automation.
00:15 – 00:30	<u>Python Coding with AI</u>	Use AI to generate and refine Python scripts for data manipulation and visualization.
00:30 – 00:45	<u>SQL Queries & RDBMS</u>	Practice writing SQL queries to extract and analyze data from relational databases.
00:45 – 01:00	<u>Tableau for Data Presentation</u>	Create basic dashboards and visualizations using Tableau.
01:00 – 01:15	<u>Statistical Analysis</u>	Apply basic statistical techniques to interpret datasets and support decisions.

There will be a 15 minute Q&A at the end of the session.

Learning Outcomes

By the end of the seminar, participants will be able to:

- [Craft effective prompts](#) to guide AI tools
 - [Generate and refine Python code](#) using AI
 - [Write SQL queries](#) to interact with relational databases
 - [Analyze and visualize data](#) using Tableau
 - [Apply basic statistical techniques](#) to interpret data
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Extended Learning Opportunity

For those seeking deeper mastery, Quality Science Systems Consulting Group offers a **16-hour in-depth online course** covering advanced AI integration, Python scripting, SQL optimization, Tableau dashboard design, and statistical modeling. This paid program includes hands-on labs, downloadable resources, and personalized feedback. Visit qualitysciencesystems.com for enrollment details and upcoming session dates.