



Data Analysis Advanced Concepts with Excel (3 Days)

Course Description:

It's easy to suffer from information overload in today's world. Employees need tools that are both easy to use and help them make sense of the large volume of data they're presented with on a daily basis.

In this course, we build upon our Introduction to Data Analytics and Data Analysis and Visualization with Excel course and move on to more advanced features of Excel and more advanced techniques we can apply to our data.

Participants will learn how to bring data from multiple sources together in one place for analysis. They will learn how to manipulate the data into a form suitable for the type of analysis required for their work.

Participants will move past descriptive analytics and leverage the power of:

- Diagnostic Analytics: Why did something happen?
- Predictive Analytics: What will happen?
- Prescriptive Analytics: How can we make something happen?

Tracking information and results over time can offer valuable insights used to refine the work that we do. Participants will learn to use KPIs to help with Data Analysis and to make real-time decisions based on current up to date information.

Participants will learn how to organize analytic results spatially (GIS, Geospatial) to more quickly reveal insights.

Objectives:

Upon successful completion of this training, students will be able to:

- Explain Data Modelling with Excel Worksheets
- Simultaneously work with data from multiple sources
- Creating queries with Power query
- Model and Analyze Data with Power Pivot
- Create proper KPIs to help with data analysis.
- Perform Diagnostic and Predictive Analytics to better explain why a problem occurs and what is most likely to occur next.
- Perform Prescriptive Analytics to help make things happen
- Data Analysis with PivotTables, PivotCharts, and Slicers
- Use Excel's Advanced and 3D Mapping features