Course : PowerPivot Excel: data analysis

Practical course - 2d - 14h00 - Ref. POX
Price : 1030 CHF E.T.

★★★★☆   **4,7 / 5**

In this training course, you'll learn how to use PowerPivot, Excel's integrated BI tool, to overcome spreadsheet limitations and analyze large volumes of data. You'll learn how to extract, manipulate and present data.

◎ Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Connect to a variety of data sources (OLAP cubes, data warehouses, flat files and Excel tables)
- ✓ Combine tables from different sources to create coherent sets
- ✓ Perform calculations and design indicators using the DAX language
- ✓ Use Excel to design pivot tables, graphs and dashboards

Intended audience
Any Excel user who needs to analyze and synthesize data.

Prerequisites
Good knowledge of Excel or level equivalent to Excel Level 1 courses. Basic knowledge of relational DBMS.

Practical details
Discussions, experience sharing, demonstrations, tutorials and case studies.

Teaching methods
Active pedagogy based on examples, demonstrations, experience sharing, case studies and assessment of learning throughout the course.

Course schedule

PARTICIPANTS
Any Excel user who needs to analyze and synthesize data.

PREREQUISITES
Good knowledge of Excel or level equivalent to Excel Level 1 courses. Basic knowledge of relational DBMS.

TRAINER QUALIFICATIONS
The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS
The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

1. Introducing PowerPivot

- Benefits and features.
- The different versions of PowerPivot.
- What data can you use with PowerPivot?
- How do you render data in Excel in summary form?

Hands-on work
Configure PowerPivot. Connect to a data source and create a simple pivot table.

2. Data output: Excel as interface

- Create pivot tables and pivot graphs.
- Define measures in DCTs: functions, ratios, deviations, progression.
- Define chronological grouping levels, define value ranges.
- Use segments to dynamically qualify data.
- Use timelines to filter analyses.

Hands-on work
Design DCTs to manipulate and analyze data.

3. Working with heterogeneous data sources

- Load PowerPivot tables from Excel.
- Access relational databases: SQL Server, Access, ODBC, etc.
- Manage connections and updates.
- Use the Diagram view.
- Define relationships between tables. Reference another table.
- An alternative to SearchV.
- Arrange displays and create perspectives.

Hands-on work
Load and organize data from heterogeneous sources.

4. Calculation in the cube

- DAX functions, Excel functions and calculations in the DCT.
- Sort and filter data. Organize columns and eliminate unnecessary information.
- Create calculated columns. Convert and format data. Prepare grouping levels.
- Design calculated fields.
- Pre-calculated measurements.
- Implement intelligent date management.

Hands-on work
Work out various calculations in the cube and format them.

5. Publishing and Collaborative Working

- Learn about publishing and sharing solutions.
- Example of Powerview reports.
- SharePoint and/or Office 365.

Hands-on work
Publish your analysis work.

Options

Certification : 80 € HT

TOSA® certification certifies the learner's skills on a 1,000-point scale for a period of 3 years. The TOSA® diploma is issued if the learner's score exceeds 351 points. The program targets advanced to expert levels (score from 726 to 1,000). Once the exam has been taken, learners can consult their results live, and receive an e-mail with a certificate, a detailed summary of their skills and their diploma within 5 days. The exam lasts 1 H 00 and consists of 35 exercises alternating between manipulations on the software and multiple-choice questions, the difficulty of which varies according to the learner's answers. Unless specifically requested, the course is given by default in French and on the most recent software version. Monitoring is carried out by software and recorded for compliance control purposes.