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Data Analytics with KNIME

Effective data preparation and data analysis without programming knowledge

Start: 14.05.2025 - 09:00	 Flex: Ostfildern or	Event no.: 36246.00.001	Presence or Online
End: 29.05.2025 - 12:30	Online	Management	EUR 2.100,00 (VAT-free)
Duration: 3,0 Days	<u>Benedikt Schwaiger</u> SMH Analytics GmbH		Member 
more dates			Price EUR 1.890,00 (VAT-free)

in Collaboration with:



DESCRIPTION

KNIME Analytics Platform enables you to gain valuable insights by analyzing data and improving efficiency by automating repetitive data tasks, even without programming or special IT skills.

The training has a modular structure and focuses on statistical basics, the use of the KNIME tool, and the topic of data preparation and data visualization in KNIME.

KNIME is an open-source application for data analysis that can be used to automate data extract, transform, and load tasks, as well as sophisticated data analyses such as text mining, image processing, and machine learning intuitively and without programming knowledge. We will also show you how to link KNIME with other tools like Power BI.

After the basic training, you will be supported in implementing practical applications in the form of learning transfers.

Aim of the further education

In this seminar, you will learn the essential basics of low-code data analysis and practice the implementation for your use cases for visualising and analysing machine data using the KNIME tool.

The training will enable you to work with data in a targeted and productive way. You will learn the most important technical terms related to data analysis and the most important statistical and mathematical principles. After a thorough introduction to common data analysis methods, you will learn how to prepare, visualise and interpret data sets with KNIME to make better data-driven decisions for your organisation or department.

ALWAYS THE BEST!

Our promise of quality



For over 65 years, the “Technische Akademie Esslingen” (TAE), based in Ostfildern - close to the state capital Stuttgart - has been one of Germany's largest providers of further education for vocational and pre-vocational training in the technical field. Our goal is your success. Whether seminar, certificate course or specialist conference, our events are always customised to the needs of engineers, specialists and managers from technical companies. You can always rely 100 per cent on the quality of our programmes. Why is that the case?

PROGRAM

Basic training (presence or live-online)

Wed., 14.05. - Thu., 15.05.2025 from 9:00 to 17:00, including breaks

Introduction to data analytics

- Motivation and characteristics of data-driven companies
- Terms relating to data science, data mining, data analytics and business intelligence
- Data-driven mindset: development and significance in production
- From data to insights
- Terminology and basics concepts of data analysis

Introduction to KNIME

- Basics of the KNIME Analytics platform
- Start, settings and options
- Overview of the graphical user interface
- Important functions
- Basic principle of nodes and visual workflows
- K-AI: KNIME Artificial Intelligence, Chatbot

Statistical basics

- Application of descriptive statistics
- Dependent/independent variables
- Scale levels
- Measures of position: mean, median and mode
- Measures of dispersion: variance and standard deviation, range and normal distribution
- Pitfalls in data analysis (e.g. causality vs. correlation)

Preparation of data

- Requirements for data quality
- Common data problems
- Data preparation
- Storytelling with data

Extract, Transform, Load (ETL) with KNIME

- Data import of machine data and other data
- Data check, detection of common data problems
- Merging data
- Data cleansing, measures for data preparation, text functions
- Data formats
- Table & workflow organization
- Data export and integration of other tools, e.g. Power BI
- Time and date formats
- Text functions

Reports and visualisations

- Visualization elements and best practices in dashboard design
- Use of different chart types
- Data visualisation with Java Script Nodes in KNIME

Outlook and Q&A session

- Data mining and process mining
- Automation with loop function
- Plug & play utilisation of existing workflows
- Expert tips
- Clarification of open questions

Learning transfer (2 x 0.5 days 09:00-12:30, live-online)

Wed 21.05 and Thu 29.05.2025

- Specific problems and questions from users related to the use of KNIME and the implementation of use cases are discussed and solved directly.
- Participants receive intensive support and guidance during the practical exercises. They will also receive tips for implementation, and individual questions will be addressed.
- Specific questions are collected in the appointment's introductory training session, which the trainer prepares for, and then dealt with in the learning transfer units.

PARTICIPANTS

Employees from various specialist areas who want to develop a basic understanding of analyzing and evaluating data. Participants in the KNIME training do not require any special mathematical, statistical or programming knowledge.

SPEAKERS

Benedikt Schwaiger

Benedikt Schwaiger ist Geschäftsführer der SMH Analytics GmbH und verfügt über langjährige Erfahrung als Berater und Trainer für KMU sowie Konzerne. Mit einem B. Sc. in Betriebswirtschaftslehre (Universität Siegen) und einem MBA in Digital Business (MCI Innsbruck) verbindet er betriebswirtschaftliches Know-how mit tiefem Fachwissen in Data Science und Künstlicher Intelligenz.

Als zertifizierter KNIME-Partner unterstützt er Unternehmen bei der Identifikation und Umsetzung von Data Science- und GenAI-Use Cases, der Implementierung von Low-Code/No-Code-Tools sowie der Steigerung der Datenkompetenz von Mitarbeitenden, Führungskräften und Organisationen. Sein Fokus liegt darauf, datengetriebene Innovationen praxisnah und nachhaltig in Unternehmen zu verankern.

Further events

[Data Analytics with KNIME](#)

[KI-Strategie für Unternehmen](#)

[Einführung in Data Science ohne Programmierkenntnisse](#)

[Grundlagen der generativen KI](#)

[Data Analytics with Power BI](#)

EVENT LOCATION

Technische Akademie Esslingen

An der Akademie 5

73760 Ostfildern

TAE is located in the south-west of Germany in the state of Baden-Württemberg - in the immediate vicinity of the state capital Stuttgart. Our training centre has excellent transport links and can be reached quickly and easily by all means of transport.



FEES AND FUNDING OPPORTUNITIES

Participation includes [Verpflegung](#) (on site) and detailed documentation.

Price:

The participation fee is:

2.100,00 € (VAT-free) on site

2.100,00 € (VAT-free) per participant live online

In-house realisation:

Would you like to organise this event at your company's premises? Then request a customised [In-house training](#) now.

Further dates and locations

Date

Start: 26.11.2025

End: 11.12.2025

Learning setting & location

📍📺 Flex: Ostfildern or Online

Price

EUR 2.100,00