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Courses 2024

	Course name		From		To	Location	Price per participant
Business Analytics (BI/DWH)	Dimensional Data Modeling - Introduction/Advanced	2 days	31 January	-	1 February	Brussels	1.350 €
	Dimensional Data Modeling - Introduction/Advanced	2 days	7 May	-	8 May	Brussels	1.350 €
	Dimensional Data Modeling - Introduction/Advanced	2 days	3 September	-	4 September	Brussels	1.350 €
	Dimensional Data Modeling - Introduction/Advanced	2 days	19 November	-	20 November	Brussels	1.350 €
	Data Governance Fundamentals	2 day	20 February	-	21 February	Brussels	1.350 €
	Data Governance Fundamentals	2 day	18 June	-	19 June	Brussels	1.350 €
	Data Governance Fundamentals	2 day	19 November	-	20 November	Brussels	1.350 €
	Data Visualization Best Practices	1 day	12 March			Brussels	675 €
	Data Visualization Best Practices	1 day	24 September			Brussels	675 €
Microsoft Power BI	Introduction to Microsoft Power BI	1 day	30 January			Brussels	675 €
	Introduction to Microsoft Power BI	1 day	4 June			Brussels	675 €
	Introduction to Microsoft Power BI	1 day	21 October			Brussels	675 €
	Advanced Microsoft Power BI - Report Builders	2 days	6 February	-	7 February	Brussels	1.350 €
	Advanced Microsoft Power BI - Report Builders	2 days	11 June	-	12 June	Brussels	1.350 €
	Advanced Microsoft Power BI - Report Builders	2 days	22 October	-	23 October	Brussels	1.350 €
	Advanced Microsoft Power BI - Developers	2 days	26 February	-	27 February	Brussels	1.350 €
	Advanced Microsoft Power BI - Developers	2 days	25 June	-	26 June	Brussels	1.350 €
	Advanced Microsoft Power BI - Developers	2 days	12 November	-	13 November	Brussels	1.350 €
Microsoft Azure	Azure Fundamentals for BI Professionals	2 days	20 February	-	21 February	Brussels	1.350 €
	Azure Fundamentals for BI Professionals	2 days	11 June	-	12 June	Brussels	1.350 €
	Azure Fundamentals for BI Professionals	2 days	24 September	-	25 September	Brussels	1.350 €
	Azure DevOps Basics	1 day	12 March			Brussels	675 €
	Azure DevOps Basics	1 day	5 November			Brussels	675 €
	Data Lakehouse development with Databricks	1 day	19 March			Brussels	675 €
	Data Lakehouse development with Databricks	1 day	8 October			Brussels	675 €
	Data Lakehouse development with Fabric	1 day	23 April			Brussels	675 €
	Data Lakehouse development with Fabric	1 day	15 October			Brussels	675 €
	Data Engineering with Databricks	3 days	13 May	-	15 May	Brussels	2.000 €
	Data Engineering with Databricks	3 days	16 October	-	18 October	Brussels	2.000 €
Data Science & AI	Data Science for BI Analysts	2 days	12 March	-	13 March	Brussels	1.350 €
	Data Science for BI Analysts	2 days	8 October	-	9 October	Brussels	1.350 €
	Machine Learning on Azure	2 days	14 May	-	15 May	Brussels	1.350 €
	Machine Learning on Azure	2 days	17 October	-	18 October	Brussels	1.350 €
	Generative AI	1 day	18 June			Brussels	675 €
	Generative AI	1 day	19 November			Brussels	675 €
Vena	Vena Power User Learning Path	12 hours	15 April	-	26 April	Virtual - Remote	950 €
	6 e-learning courses for a total of 6 hours		18 November	-	29 November	Virtual - Remote	950 €
	2 instructor-led courses 2x3 hours		*(instructor-led courses are planned in the second week of the training window)*				

- Prices listed are always per participant.
- On-site trainings always require a minimum of 3 participants.
- Classroom trainings include free parking, lunch and refreshments for each participant.
- For in-company training and/or custom training, contact element61 Academy (academy@element61.be).
- Check also our Learning Paths on Building a Modern Data Lakehouse and Data Scientist
- Any questions or want to register, get in contact : academy@element61.be

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Course Descriptions

Business Analytics (BI/DWH)

Dimensional Data Modeling - Introduction Day

An introduction will take off by explaining the fundamentals in terms of dimensions & facts and the corresponding dimensional process. It will offer a view of methods & templates which can be used to accelerate & document. This course is intended for professionals with limited to intermediate knowledge of modeling in the context of Data Warehousing & Business Intelligence.

Dimensional Data Modeling - Advanced Day

In the advanced part, it will also delve deeper into amongst other history tracking, the various existing fact-types, multi-valued dimensions, heterogeneous dimensions and facts. Throughout the course, special situations are discussed and a number of exercises, based on real-world cases, are given.

Data Governance Fundamentals (2 days)

In today's data-driven world, effective management of data is a cornerstone of success for any organization. To thrive in a constantly evolving landscape, businesses must not only collect and store data but also manage it efficiently, ensuring it is accurate, reliable, and used strategically to drive decision-making. In this training we will delve deep into the critical pillars of data management: Data Governance, Data Quality, Master Data Management, and Metadata Management. This program is designed to equip you with the knowledge and concepts necessary to embark on a data governance journey.

Data Visualization Best Practices (1 day)

Technological advances and ever-growing amounts of data resulted in Data Visualization becoming increasingly essential for businesses. If used well, they allow you to communicate on complex data in a clear and efficient manner. Too often, we see that poor choices in Data Visualization lead to hard-to-read graphs and incorrect conclusions. While BI tools give you (almost) all the necessary features to build great reports, they often lack the ability to understand (i) the story within your data, and (ii) the message you want to convey to your audience. It is up to the data analyst to extract these meaningful stories to drive data-driven decision-making.

Microsoft Power BI

Introduction to Microsoft Power BI (1 day)

In this 1-day workshop, you'll gain the fundamental knowledge to kickstart your journey in using Power BI reports and building your own captivating reports. You'll learn how Power BI works, how to share reports effectively and create your own. By the end of the workshop, you'll be able to confidently create reports and harness the full capabilities of Power BI.

Advanced Microsoft Power BI - Report Builders (2 days)

In just 2 days, unlock the full potential of Power BI and elevate your reporting capabilities. Learn the art of creating beautiful reports that turn raw data into actionable insights, leveraging the datasets curated by your team. Gain the skills to captivate your audience with visually compelling visuals and drive impactful decision-making.

Advanced Microsoft Power BI - Developers (2 days)

Join us for a 2-day training where you'll discover the secrets of creating enterprise datasets using the powerful tools within Power BI. Gain the skills to govern your Power BI environment effectively, enabling your colleagues to effortlessly generate reports based on the datasets you curate. By the end, you'll be equipped to unleash the full potential of Power BI within your organization.

Microsoft Azure

Azure Fundamentals for BI Professionals (2 days)

As a BI professional you want to stay up-to-date about how BI and Analytics are run in the cloud, which features are new and which components can help overcome current challenges in your on-premise BI environment. In this Azure fundamentals workshop, we share and show all components & principles a BI professional should know about building BI and Analytics in the Azure Cloud. We offer 1-day theory + 1-day hands-on exercises

Azure DevOps (1 day)

In this course, we show you how to embrace Azure DevOps for Data Analytics. This course highlights the principles of DevOps including what is CICD, what is infrastructure-as-code, what is git, what is a pull request, etc but also has hands-on exercises about using the command line, about git and about the use of git within Azure Data Factory and Azure Databricks. This course is not focused on teaching agile or scrum methodology but rather on 'how to practically use DevOps for BI & Analytics using Azure DevOps'.

Data Lakehouse development with Databricks (1 day)

In modern BI development, a data lakehouse combines the flexibility and cost-efficiency of data lakes with data warehouse data management and ACID transactions, enabling BI and ML on all data. As a BI or Data Professional, you want to feel comfortable developing modern data lakehouses in the Microsoft Azure Cloud stack. To learn all these tips & tricks of data lakehousing with Databricks on Azure, element61 hosts this Modern BI development training.

Data Lakehouse development with Microsoft Fabric (1 day)

Microsoft Fabric is the new Microsoft branded analytics platform that integrates data warehousing, data integration and orchestration, data engineering, data science, real-time analytics, and business intelligence into a single product. By taking Microsft Fabric's data lakehouse development training, BI and Data Professionals can unlock the potential of this new one-stop-shop for all your analytics and create modern data lakehouses. This training is designed to teach the best practices and tricks of data lakehousing with Microsoft Fabric on Azure, empowering professionals to elevate their skills and achieve tremendous success in their careers.

Data Engineering with Databricks (3 days)

This training program is designed to provide participants with the knowledge and skills required for data engineering with Databricks on Azure. The program promises to cover a wide range of topics and is set to equip participants with the practical skills needed to excel in their field. We will explore the most efficient ways to facilitate the Spark engine and distributed computing principles within the Databricks environment. Our main emphasis is on fully utilizing Databricks to address all queries related to data engineering.

Data Science & AI

Data Science for BI Analysts (2 days)

Business analysts and programmers are getting more and more in contact with advanced analytics. Although not the core of their job, it is important that they gain an initial understanding of what it is, and what value it can bring to their organization. Therefore, we have created a 2-day introductory course in Data Science explaining all the important concepts, and the process that leads to a successful project. We end the course with practical examples and applications of machine learning to give food for thought to all participants.

Machine Learning on Azure (2 days)

As a data scientist you might be interested in how to improve the development in a ML lifecycle and bring ML algorithms faster to production or overcome challenges with the current development cycle. In this 2-day course in Machine Learning on Azure we explain how you can develop and train your machine learning algorithms in Azure and Databricks at scale, MLOps principals to register and track ML models, how to easily deploy and serve models. The course explains all the principles and is supported with practical exercises to cover the end-to-end ML lifecycle.

Generative AI (1 day)

In this 1-day workshop, you'll gain the fundamental knowledge to kickstart your journey in understanding, building and using your own Generative AI applications. The focus of this training will be on creating text-based applications (using LLMs) but we'll be touching on other applications of generative AI as well (image, code, ...). You'll learn how you can build your own generative AI applications, what the difference is between fine-tuning, retraining, prompt engineering, ... Finally, at the end of the day, you should have gained all capabilities to build your own chatbot using Azure OpenAI.

Vena

Vena Power user Learning Path

A self-paced training, blended with e-learning and instructor-led training sessions organised in a 2 weeks window, providing 12 hours of training in total. Increase your knowledge of Vena to create intelligent data entry screens, in-depth analysis reports and efficient dashboards. Get more insights into specific topics of the Vena solution. Learn more about Workflow, Task bindings or even script development. Train that new colleague who just arrived in your department and needs to get acquainted with Vena to produce the perfect reports.

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Analytics Learning Paths

Building a Modern Data Lakehouse on Azure Learning Path (6 days)

Dimensional Data Modeling (2 days)

This 2-day course (basic and advanced) on dimensional modeling is based on Ralph Kimball's book, the Data Warehouse Toolkit. The course will take off by explaining the fundamentals in terms of dimensions & facts and the corresponding dimensional process. It will offer a view of methods & templates which can be used to accelerate & document. In the advanced part, it will also delve deeper into amongst other history tracking, the various existing fact-types, multi-valued dimensions, heterogeneous dimensions and facts. Throughout the course special situations are discussed and a number of exercises, based on real-world cases, are given.

Azure fundamentals for BI Professionals (2 days)

As a BI professional you want to stay up-to-date about how BI and Analytics are run in the cloud, which features are new and which components can help overcome current challenges in your on-premise BI environment. In this Azure fundamentals workshop, we share and show all components & principles a BI professional should know about building BI and Analytics in the Azure Cloud. We offer 1-day theory + 1-day hands-on exercises

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Data Lakehouse development with Databricks (1 day)-- OR--

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Data Scientist Learning Path (4 days + 2 days optional)

Data Science for BI Analysts (2 days) - optional

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Machine Learning on Azure (2 days)

As a data scientist you might be interested in how to improve the development in a ML lifecycle and bring ML algorithms faster to production or overcome challenges with the current development cycle. In this 2-day course in Machine Learning on Azure we explain how you can develop and train your machine learning algorithms in Azure and Databricks at scale, MLOps principals to register and track ML models, how to easily deploy and serve models. The course explains all the principles and is supported with practical exercises to cover the end-to-end ML lifecycle.

Data Engineering with Databricks (day 1 - Spark Core)

This training program is designed to provide participants with the knowledge and skills required for data engineering with Databricks on Azure. Day 1 as part of the Data Scientist Learning Path will focus on gaining Spark Core knowledge within the Databricks environment.

Machine Learning on Azure (2 days)

As a data scientist you might be interested in how to improve the development in a ML lifecycle and bring ML algorithms faster to production or overcome challenges with the current development cycle. In this 2-day course in Machine Learning on Azure we explain how you can develop and train your machine learning algorithms in Azure and Databricks at scale, MLOps principals to register and track ML models, how to easily deploy and serve models. The course explains all the principles and is supported with practical exercises to cover the end-to-end ML lifecycle.

Generative AI (1 day)

In this 1-day workshop, you'll gain the fundamental knowledge to kickstart your journey in understanding, building and using your own Generative AI applications. The focus of this training will be on creating text-based applications (using LLMs) but we'll be touching on other applications of generative AI as well (image, code, ...). You'll learn how you can build your own generative AI applications, what the difference is between fine-tuning, retraining, prompt engineering, ... Finally, at the end of the day, you should have gained all capabilities to build your own chatbot using Azure OpenAI.

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https://www.element61.be/en/competence/business-analytics-learning-paths