

## Courses 2025

	Course name		From	To	Location	Price per participant
<b>Business Analytics (BI/DWH)</b>	Dimensional Data Modeling - Introduction/Advanced	2 days	3 February	- 4 February	Brussels	1.350 €
	Dimensional Data Modeling - Introduction/Advanced	2 days	5 May	- 6 May	Brussels	1.350 €
	Dimensional Data Modeling - Introduction/Advanced	2 days	8 September	- 9 September	Brussels	1.350 €
	Dimensional Data Modeling - Introduction/Advanced	2 days	17 November	- 18 November	Brussels	1.350 €
	Data Governance Fundamentals	2 day	17 February	- 18 February	Brussels	1.350 €
	Data Governance Fundamentals	2 day	16 June	- 17 June	Brussels	1.350 €
	Data Governance Fundamentals	2 day	19 November	- 20 November	Brussels	1.350 €
	Data Visualization Best Practices	1 day	10 March		Brussels	675 €
	Data Visualization Best Practices	1 day	22 September		Brussels	675 €
<b>Microsoft Power BI</b>	Introduction to Microsoft Power BI	1 day	27 January		Brussels	675 €
	Introduction to Microsoft Power BI	1 day	2 June		Brussels	675 €
	Introduction to Microsoft Power BI	1 day	20 October		Brussels	675 €
	Advanced Microsoft Power BI - Report Builders	2 days	10 February	- 11 February	Brussels	1.350 €
	Advanced Microsoft Power BI - Report Builders	2 days	10 June	- 11 June	Brussels	1.350 €
	Advanced Microsoft Power BI - Report Builders	2 days	21 October	- 22 October	Brussels	1.350 €
	Advanced Microsoft Power BI - Developers	2 days	24 February	- 25 February	Brussels	1.350 €
	Advanced Microsoft Power BI - Developers	2 days	23 June	- 24 June	Brussels	1.350 €
	Advanced Microsoft Power BI - Developers	2 days	12 November	- 13 November	Brussels	1.350 €
<b>Microsoft Azure</b>	Azure Fundamentals for BI Professionals	2 days	17 February	- 18 February	Brussels	1.350 €
	Azure Fundamentals for BI Professionals	2 days	16 June	- 17 June	Brussels	1.350 €
	Azure Fundamentals for BI Professionals	2 days	22 September	- 23 September	Brussels	1.350 €
	Azure DevOps Basics	1 day	17 March		Brussels	675 €
	Azure DevOps Basics	1 day	3 November		Brussels	675 €
	Data Lakehouse development with Databricks	1 day	17 March		Brussels	675 €
	Data Lakehouse development with Databricks	1 day	6 October		Brussels	675 €
	Data Lakehouse development with Fabric	1 day	28 April		Brussels	675 €
	Data Lakehouse development with Fabric	1 day	13 October		Brussels	675 €
	Data Engineering with Databricks	3 days	12 May	- 14 May	Brussels	2.000 €
Data Engineering with Databricks	3 days	13 October	- 15 October	Brussels	2.000 €	
<b>Data Science &amp; AI</b>	Data Science for BI Analysts	2 days	17 March	- 18 March	Brussels	1.350 €
	Data Science for BI Analysts	2 days	20 October	- 21 October	Brussels	1.350 €
	Machine Learning on Azure	2 days	12 May	- 13 May	Brussels	1.350 €
	Machine Learning on Azure	2 days	17 November	- 18 November	Brussels	1.350 €
	Generative AI	1 day	18 June		Brussels	675 €
	Generative AI	1 day	24 November		Brussels	675 €
<b>Vena</b>	Vena Training for Power Users	1 day	11 March		Online - Remote	950 €
	Vena Training for Power Users	1 day	13 May		Online - Remote	950 €
	Vena Training for Power Users	1 day	24 June		Online - Remote	950 €
	Vena Training for Power Users	1 day	23 September		Online - Remote	950 €
	Vena Training for Power Users	1 day	25 November		Online - Remote	950 €
<b>CCH Tagetik Track</b>	CCH Tagetik Data Modeling	1 day	18 February		Online - Remote	910 €
	CCH Tagetik Output Reporting	2 days	19 February	- 20 February	Online - Remote	1.820 €
	CCH Tagetik Data Collection	1 day	25 February		Online - Remote	910 €
	CCH Tagetik Financial Modeling and Reporting	1 day	26 February		Online - Remote	910 €
	CCH Tagetik Data Modeling	1 day	13 May		Online - Remote	910 €
	CCH Tagetik Output Reporting	2 days	14 March	- 15 March	Online - Remote	1.820 €
	CCH Tagetik Data Collection	1 day	20 May		Online - Remote	910 €
	CCH Tagetik Financial Modeling and Reporting	1 day	21 May		Online - Remote	910 €
	CCH Tagetik Data Modeling	1 day	16 September		Online - Remote	910 €
	CCH Tagetik Output Reporting	2 days	17 September	- 18 September	Online - Remote	1.820 €
	CCH Tagetik Data Collection	1 day	22 September		Online - Remote	910 €
	CCH Tagetik Financial Modeling and Reporting	1 day	23 September		Online - Remote	910 €
	CCH Tagetik Data Modeling	1 day	18 November		Online - Remote	910 €
	CCH Tagetik Output Reporting	2 days	19 November	- 20 November	Online - Remote	1.820 €
	CCH Tagetik Data Collection	1 day	24 November		Online - Remote	910 €
CCH Tagetik Financial Modeling and Reporting	1 day	25 November		Online - Remote	910 €	

- Prices (excl. VAT) 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

## 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 Microsoft 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.

## Course Descriptions

<b>Data Science &amp; AI</b>	<b>Data Science for BI Analysts (2 days)</b>
	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.
	<b>Machine Learning on Azure (2 days)</b>
	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.
	<b>Generative AI (1 day)</b>
	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.
<b>Vena</b>	<b>Vena Training for Power Users</b>
	During a one day training, you get to know all the ins and outs to support your Vena environment. The course can be organised remote or in classroom mode. This is mentioned together with the training date. As a participant, you receive access to a private Vena environment where you can practice on your own in a no-risk Vena environment.
<b>CCH Tagetik Track</b>	<b>CCH Tagetik Data Modeling (1 day)</b>
	This training course is an introduction to the CCH Tagetik platform and covers the basics of CCH® Tagetik data model logic and the relevant information to use, define and maintain all the data model components: dimensions, datasets, aggregation structures.
	<b>CCH Tagetik Output Reporting (2 days)</b>
	This training course explains how to retrieve data from the application, using CCH® Tagetik reporting features.
	<b>CCH Tagetik Data Collection (1 day)</b>
This training course reviews the main data collection tools, and it shows participants how to run them. It also teaches attendees how to create and use data entry forms.	
	<b>CCH Tagetik Financial Modeling and Reporting (1 day)</b>
	This training course introduces the use of Financial workspace, the specific features of the system dimension, the basics of financial data collection tools and how to design reports and data entry forms to collect financial data. This course is focused around specific elements of the consolidation application (Financial Statements setup, Balance Sheet Continuity schedules, ...).

## 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.

#### 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 - option 1)-- OR--

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 - option 2)

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

#### Data Science for BI Analysts (2 days) - optional

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.

#### 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.