Courses 2023

Course name		From		To	Location	Price per participant
Business Analytics (BI/DWH)						
Dimensional Data Modeling - Basic/Advanced	2 days	24 January	-	25 January	Brussels	1.350 €
Dimensional Data Modeling - Basic/Advanced	2 days	9 May	-	10 May	Brussels	1.350 €
Dimensional Data Modeling - Basic/Advanced	2 days	3 October	-	4 October	Brussels	1.350 €
Data Quality, -Profiling and -Management	1 day	28 February			Brussels	675 €
Data Quality, -Profiling and -Management	1 day	21 November			Brussels	675 €
Data Visualization Best Practices	1 day	28 March			Brussels	675 €
Data Visualization Best Practices	1 day	19 September			Brussels	675 €
Microsoft Power BI						
MS Power BI coaching workshop	2 days	14 March	-	15 March	Brussels	1.350 €
MS Power BI coaching workshop	2 days	26 September	-	27 September	Brussels	1.350 €
MS Power BI Update Session	1 day	23 May			Brussels	675 € (*)
MS Power BI Update Session	1 day	5 December			Brussels	675 € (*)
Microsoft Azure						
Azure fundamentals for BI Professionals	2 days	14 February	-	15 February	Brussels	1.350 €
Azure fundamentals for BI Professionals	2 days	6 June	-	7 June	Brussels	1.350 €
Azure fundamentals for BI Professionals	2 days	19 September	-	20 September	Brussels	1.350 €
Azure DevOps Basics	1 day	7 March			Brussels	675 €
Azure DevOps Basics	1 day	28 November			Brussels	675 €
Modern BI Development with Azure Synapse	1 day	21 March			Brussels	675 €
Modern BI Development with Azure Synapse	1 day	24 October			Brussels	675 €
Programming with Azure Databricks	2 days	8 March	-	9 March	Brussels	1.350 €
Programming with Azure Databricks	2 days	17 October	-	18 October	Brussels	1.350 €
Data Science & AI						
Data Science for BI Analysts	2 days	21 March	-	22 March	Brussels	1.350 €
Data Science for BI Analysts	2 days	12 September	-	13 September	Brussels	1.350 €
Machine Learning on Azure	1 day	18 April			Brussels	675 €
Machine Learning on Azure	1 day	17 October			Brussels	675 €
Using MLflow with Databricks	1 day	6 June			Brussels	675 €
Using MLflow with Databricks	1 day	21 November			Brussels	675 €
SAP Analytics						
SAP Analytics Cloud - Reporting (BI)	2 days	21 March	-	22 March	Brussels	1.350 €
SAP Analytics Cloud - Reporting (BI)	2 days	23 May	-	24 May	Brussels	1.350 €
SAP Analytics Cloud - Reporting (BI)	2 days	19 September	-	20 September	Brussels	1.350 €
SAP Analytics Cloud - Reporting (BI)	2 days	7 November	-	8 November	Brussels	1.350 €
SAP Analytics Cloud - Planning	2 days	28 March	-	29 March	Brussels	1.350 €
SAP Analytics Cloud - Planning	2 days	25 May	-	26 May	Brussels	1.350 €
SAP Analytics Cloud - Planning	2 days	21 September	-	22 September	Brussels	1.350 €
SAP Analytics Cloud - Planning	2 days	28 November	-	29 November	Brussels	1.350 €
Analysis for Office and Eclipse-based Query Modeling in BW/4HANA	1 day	20 March			Brussels	675 €
Analysis for Office and Eclipse-based Query Modeling in BW/4HANA	1 day	22 May			Brussels	675 €
Analysis for Office and Eclipse-based Query Modeling in BW/4HANA	1 day	18 September			Brussels	675 €
Analysis for Office and Eclipse-based Query Modeling in BW/4HANA	1 day	6 November			Brussels	675 €

- 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).
- (*) If you subscribe to both sessions, before May 1th, 25% discount is offered on the total.
- Check also our Learning Paths towards Cloud BI Developer, Azure Data Engineer/Scientist
- Any questions or want to register, get in contact : academy@element61.be

Course Descriptions

element61 | Academy

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 Quality, -Profiling and -Management
Data quality management is one of the greatest challenges of information technology. The training will give insights on How to define Data Quality and provide you with a process and techniques to identify and improve Data Quality issues. Next to Data Quality the training will also cover and define Master Data Management and how this relates to your Data-driven initiatives.

Data Visualization Best Practices
This training teaches you the fundamentals of data visualization. In this course, we go over the most common types of tables and charts, and how you need to choose between those two options. We look at "design best practices" to make graphs and visuals the most efficient and effective. The course also covers the principles of visual perception and how these can help you to make better visualizations and dashboards.

Microsoft Power BI

Azure fundamentals for BI Professionals
During this 2-days coaching workshop, you will be guided step-by-step to get acquainted with the capabilities of Microsoft Power BI. It will enable you to get started with Power BI, build your dashboards, reports and visualize the data within your company and turn it into insights.

Microsoft Power BI update sessions
With monthly Power BI updates and a busy job, it can be a challenge to keep up with new PowerBI features and still benefit from using them as soon as they become available. Our update sessions will guide you through the latest features of Power BI and give you the ability to get some hands-on experience with these new features during a guided demo.

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
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'.

Modern BI Development with Azure Synapse
In the Cloud, data warehousing is different from on-premise SQL Server as you want to maximally benefit from cloud functionalities, scalability, flexibility & managed services. As a BI or Data Professional, you want to feel comfortable with how to do modern data warehouse development in Microsoft Azure Cloud. To learn all these tips & tricks of cloud data-warehousing with Azure Synapse Analytics, element61 hosts this Modern BI development training.

Programming with Azure Databricks (2 Days)
As a Data professional you want to learn to write and use Spark, its best practices and which features are specific to Databricks. In this Spark Programming course, you'll learn to work with Spark fluently. Across the basic and advanced course you'll learn how to read data, visualize data, and apply a variety of transformations and actions. You will explore the Spark UI and how query optimization, partitioning, and caching affect performance. With this course, you'll learn how to use Spark and Databricks for your data loads.

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
As a data scientist, you might be interested in how to run Machine Learning projects in Azure: with a variety of services available such as Azure ML, Databricks or Data Science VMs, this 1-day course will give guidance on tips & how-tos for doing Machine Learning development in Azure. The course explains all relevant resources, shares concrete tips & gives all the principles (and some practical exercises) so the audience leaves with good knowledge on how to embrace Azure Cloud for ML;

Using MLflow with Databricks
As a data scientist, you might be interested in how to improve the development in an ML lifecycle and bring ML algorithms faster to production or overcome challenges with the current development cycle. In this 1-day course, we deep-dive into how MLFlow in Azure Databricks can practically be used as an MLOps tool. This course is hands-on, practical & concrete and aims to leave the audience with concrete tips & best practices on how to use MLFlow end-to-end

SAP Analytics

SAP Analytics Cloud - Reporting (BI) (2 days)
This instructor-led, custom training including exercises have been designed for enterprises that aim to empower their Business & Key Users in SAP Analytics Cloud Reporting. This 2-day course covers basic and advanced functionality of SAC for reporting and combines expert training and advice with hands-on exercises in your individual SAC training environment.

SAP Analytics Cloud - Planning (2 days)
This instructor-led, custom training including exercises have been designed for enterprises that aim to empower their Business & Key Users in SAP Analytics Cloud Planning. This 2-day course covers basic and advanced functionality of SAC for planning and combines expert training and advice with hands-on exercises in your individual SAC training environment.

Analysis for Office and Eclipse-based Query Modeling in BW/4HANA
This 1-day instructor-led training including exercises provides users the detailed knowledge on how to create queries in the new improved eclipse-based environment and learns them how to use these queries in Analysis for Office for reporting and further analysis.

Analytics Learning Paths

Cloud BI Developer Learning Path (5 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 on 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
	Modern BI Development with Azure Synapse
	In the Cloud, data warehousing is different from on-premise SQL Server as you want to benefit from cloud functionalities, scalability, flexibility & managed services. As a BI or Data Professional, you want to feel comfortable with how to do modern data warehouse development in Microsoft Azure Cloud. To learn all these tips & tricks of cloud data-warehousing with Azure Synapse Analytics, element61 hosts this Modern BI development training.
Data Engineer 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 is 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
	In this course, we learn 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 using git, Azure Pipelines, Infrastructure-as-code using ARM, and the use of DevOps within Azure Data Factory and Azure Databricks. This course is not focused on teaching agile of scrum methodology but rather to 'how to practically do it for BI & Analytics using Azure DevOps
	Modern BI Development with Azure Synapse
	In the Cloud, data warehousing is different from on-premise SQL Server as you want to benefit from cloud functionalities, scalability, flexibility & managed services. As a BI or Data Professional, you want to feel comfortable with how to do modern data warehouse development in Microsoft Azure Cloud. To learn all these tips & tricks of cloud data-warehousing with Azure Synapse Analytics, element61 hosts this Modern BI development training.
	Programming with Azure Databricks (2 Days)
	As a Data professional you want to learn to write and use Spark, its best practices and which features are specific to Databricks. In this Spark Programming course, you'll learn to work with Spark fluently. Across the basic and advanced course you'll learn how to read data, visualize data, and apply a variety of transformations and actions. You will explore the Spark UI and how query optimization, partitioning, and caching affect performance. With this course, you'll learn how to use Spark and Databricks for your data loads.
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
	As a data scientist, you might be interested in how to improve the development in an ML lifecycle and bring ML algorithms faster to production or overcome challenges with the current development cycle. In this 1-day course in Machine Learning on Azure, we explain how you can develop and train your machine learning algorithms in Azure at scale, MLOps principals to register and track ML models, and how to easily deploy and serve models. The course explains all the principles and is supported by practical exercises to cover the end-to-end ML lifecycle.
	Programming with Azure Databricks (2 Days)
	As a Data professional you want to learn to write and use Spark, its best practices and which features are specific to Databricks. In this Spark Programming course, you'll learn to work with Spark fluently. Across the basic and advanced course, you'll learn how to read data, visualize data, and apply a variety of transformations and actions. You will explore the Spark UI and how query optimization, partitioning, and caching affect performance. With this course, you'll learn how to use Spark and Databricks for your data loads.
	Machine Learning on Azure
	As a data scientist, you might be interested in how to improve the development in an ML lifecycle and bring ML algorithms faster to production or overcome challenges with the current development cycle. In this 1-day course in Machine Learning on Azure, we explain how you can develop and train your machine learning algorithms in Azure at scale, MLOps principals to register and track ML models, and how to easily deploy and serve models. The course explains all the principles and is supported by practical exercises to cover the end-to-end ML lifecycle.
	Using MLflow with Databricks
	As a data scientist you might be interested in how to improve the development in an ML lifecycle and bring ML algorithms faster to production or overcome challenges with the current development cycle. In this 1-day course, we deep-dive into how MLFlow in Azure Databricks can practically be used as an MLOps tool. This course is hands-on, practical & concrete and aims to leave the audience with concrete tips & best practices on how to use MLFlow end-to-end