

## Courses 2022

	Training Course name		From	To	Location	Price per participant
Business Analytics (BI/DWH)	Dimensional Data Modeling - Basic/Advanced	2 days	25 January	- 26 January	Brussels	1.250 €
	Dimensional Data Modeling - Basic/Advanced	2 days	18 May	- 19 May	Brussels	1.250 €
	Dimensional Data Modeling - Basic/Advanced	2 days	18 October	- 19 October	Brussels	1.250 €
	Data Quality, -Profiling and -Management	1 day	14 February		Brussels	625 €
	Data Quality, -Profiling and -Management	1 day	22 November		Brussels	625 €
	Data Warehousing Fundamentals	1 day	22 March		Brussels	625 €
	Data Warehousing Fundamentals	1 day	20 September		Brussels	625 €
	Data Visualization Best Practices	1 day	30 March		Brussels	625 €
Data Visualization Best Practices	1 day	22 September		Brussels	625 €	
Microsoft Power BI	MS Power BI coaching workshop	2 days	17 March	- 18 March	Brussels	1.250 €
	MS Power BI coaching workshop	2 days	27 September	- 28 September	Brussels	1.250 €
	MS Power BI Update Session	1 day	17 May		Brussels	625 € (*)
	MS Power BI Update Session	1 day	6 December		Brussels	625 € (*)
Microsoft Azure	Azure fundamentals for BI Professionals	2 days	16 February	- 17 February	Brussels	1.250 €
	Azure fundamentals for BI Professionals	2 days	1 June	- 2 June	Brussels	1.250 €
	Azure fundamentals for BI Professionals	2 days	21 September	- 22 September	Brussels	1.250 €
	Azure DevOps	1 day	23 March		Brussels	625 €
	Azure DevOps	1 day	23 November		Brussels	625 €
	Modern BI Development with Azure Synapse	1 day	17 March		Brussels	625 €
	Modern BI Development with Azure Synapse	1 day	26 October		Brussels	625 €
	Programming with Azure Databricks	2 days	9 March	- 10 March	Brussels	1.250 €
Programming with Azure Databricks	2 days	19 October	- 20 October	Brussels	1.250 €	
Data Science & AI	Data Science for BI Analysts	2 days	29 March	- 30 March	Brussels	1.250 €
	Data Science for BI Analysts	2 days	13 September	- 14 September	Brussels	1.250 €
	Machine Learning on Azure	1 day	27 April		Brussels	625 €
	Machine Learning on Azure	1 day	18 October		Brussels	625 €
	Using MLflow with Databricks	1 day	8 June		Brussels	625 €
	Using MLflow with Databricks	1 day	23 November		Brussels	625 €
SAP Analytics Cloud	SAP Analytics Cloud - Reporting (BI)	2 days	21 March	- 22 March	Brussels	1.250 €
	SAP Analytics Cloud - Reporting (BI)	2 days	23 May	- 24 May	Brussels	1.250 €
	SAP Analytics Cloud - Reporting (BI)	2 days	26 September	- 27 September	Brussels	1.250 €
	SAP Analytics Cloud - Reporting (BI)	2 days	17 November	- 18 November	Brussels	1.250 €
	SAP Analytics Cloud - Planning	2 days	24 March	- 25 March	Brussels	1.250 €
	SAP Analytics Cloud - Planning	2 days	26 May	- 27 May	Brussels	1.250 €
	SAP Analytics Cloud - Planning	2 days	28 September	- 29 September	Brussels	1.250 €
	SAP Analytics Cloud - Planning	2 days	29 November	- 30 November	Brussels	1.250 €

- 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

Business Analytics (BI/DWH)	<p align="center"><b>Data Warehousing Fundamentals</b></p>
	<p>The "Data Warehousing Fundamentals" training is a 1-day training that will learn you the fundamental architecture design, terms, definitions and processes of data warehousing. This course is intended towards professionals with limited knowledge of Data Warehousing &amp; Business Intelligence. This includes data architects, data modelers, business analysts, business intelligence designers, project managers, DW/BI developers that need to get up to speed to join or start a data project.</p>
	<p align="center"><b>Dimensional Data Modeling - Introduction Day</b></p>
	<p>Introduction will take off by explaining the fundamentals in terms of dimensions &amp; facts and the corresponding dimensional process. It will offer a view on methods &amp; templates which can be used to accelerate &amp; document. This course is intended towards professionals with limited to intermediate knowledge of modeling in the context of Data Warehousing &amp; Business Intelligence.</p>
	<p align="center"><b>Dimensional Data Modeling - Advanced Day</b></p>
<p>In the advanced part, it will also delve deeper into amongst others 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.</p>	
<p align="center"><b>Data Quality, -Profiling and -Management</b></p>	
<p>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.</p>	
<p align="center"><b>Data Visualization Best Practices</b></p>	
<p>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.</p>	
Microsoft Power BI	<p align="center"><b>Microsoft Power BI coaching workshop (2 days)</b></p>
	<p>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 own dashboards, reports and visualize the data within your company and turn it into insights.</p>
<p align="center"><b>Microsoft Power BI update sessions</b></p>	
<p>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.</p>	
Microsoft Azure	<p align="center"><b>Azure fundamentals for BI Professionals (2 days)</b></p>
	<p>As a BI professional you want to stay up-to-date about how BI and Analytics is ran 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 &amp; 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</p>
	<p align="center"><b>Azure DevOps</b></p>
	<p>In this course we learn 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 using git, Azure Pipelines, Infrastructure-as-code using ARM and 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 &amp; Analytics using Azure DevOps</p>
	<p align="center"><b>Modern BI Development with Azure Synapse</b></p>
<p>In the Cloud, data warehousing is different than on-premise SQL Server as you want to maximally benefit from cloud functionalities, scalability, flexibility &amp; managed services. As a BI or Data Professional, you want to feel comfortable in how to do modern data warehouse development in Microsoft Azure Cloud. To learn all these tips &amp; tricks of cloud data-warehousing with Azure Synapse Analytics, element61 hosts this Modern BI development training.</p>	
<p align="center"><b>Programming with Azure Databricks (2 Days)</b></p>	
<p>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 courses you'll learn to work with Spark fluently. Across the basic and advanced course you'll learn how to read data, visualize data, 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.</p>	
Data Science & AI	<p align="center"><b>Data Science for BI Analysts (2 Days)</b></p>
	<p>Business analysts and programmers are getting more and more into 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 for all participants.</p>
	<p align="center"><b>Machine Learning on Azure</b></p>
<p>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 &amp; how-to's for doing Machine Learning development in Azure. The course explains all relevant resources, shares concrete tips &amp; gives all the principles (and some practical exercises) so the audience leaves with good knowledge on how to embrace Azure Cloud for ML;</p>	
<p align="center"><b>Using MLflow with Databricks</b></p>	
<p>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 1-day course we deep-dive on how MLflow in Azure Databricks can practically be used as MLOps tool. This course is hands-on, practical &amp; concrete and aims to leave the audience with concrete tips &amp; best-practices on how to use MLflow end-to-end</p>	
SAP Analytics Cloud	<p align="center"><b>SAP Analytics Cloud - Reporting (BI) (2 days)</b></p>
	<p>This instructor-led, custom training including exercises has been designed for enterprises that aim to empower their Business &amp; 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.</p>
<p align="center"><b>SAP Analytics Cloud - Planning (2 days)</b></p>	
<p>This instructor-led, custom training including exercises has been designed for enterprises that aim to empower their Business &amp; 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.</p>	

## Business Analytics Learning Paths

<b>Cloud BI Developer Learning Path</b> (5 days)	<b>Dimensional Data Modeling (2 days)</b> 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.
	<b>Azure fundamentals for BI Professionals (2 days)</b> As a BI professional you want to stay up-to-date about how BI and Analytics is ran 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
	<b>Modern BI Development with Azure Synapse</b> In the Cloud, data warehousing is different than 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 in 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.
	<b>Dimensional Data Modeling (2 days)</b> 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.
<b>Data Engineer Learning Path</b> (6 days)	<b>Azure fundamentals for BI Professionals (2 days)</b> As a BI professional you want to stay up-to-date about how BI and Analytics is ran 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
	<b>Azure DevOps</b> In this course we learn 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 using git, Azure Pipelines, Infrastructure-as-code using ARM and 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
	<b>Modern BI Development with Azure Synapse</b> In the Cloud, data warehousing is different than 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 in 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.
	<b>Programming with Azure Databricks (2 Days)</b> 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 courses you'll learn to work with Spark fluently. Across the basic and advanced course you'll learn how to read data, visualize data, 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.
<b>Data Scientist Learning Path</b> (4 days + 2 days optional)	<b>Data Science for BI Analysts (2 Days) - optional</b> Business analysts and programmers are getting more and more into 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 for all participants.
	<b>Machine Learning on Azure</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 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, 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>Programming with Azure Databricks (2 Days)</b> 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 courses you'll learn to work with Spark fluently. Across the basic and advanced course you'll learn how to read data, visualize data, 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.
	<b>Machine Learning on Azure</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 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, 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>Using MLflow with Databricks</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 1-day course we deep-dive on how MLFlow in Azure Databricks can practically be used as 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