



winc
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**Certificate Supplement
Syllabus Completion Record**

Data Analytics with Python



Program: Data Analytics with Python	Study Load: Avg. 135 hours	Issuer: Winc Academy
Level indication: Intermediate / HBO	Language: English	Status ✓ Completed

Overview

This supplement provides additional context for the Data Analytics with Python certificate issued by Winc Academy. It summarizes the syllabus, the completed modules, the practical assignments and the capabilities demonstrated by the certificate holder.

Completion statement

The certificate holder successfully completed the practice-based Data Analytics with Python program. Through assignments and projects, the certificate holder demonstrated the ability to work with SQL and Python, prepare and analyze datasets, use data analytics tools and present findings in a structured analytics report.

Completed capabilities

Work with the basics of SQL	✓ Completed
Set up a professional coding environment with VSCode, GitHub and Wincpy	✓ Completed
Use Python variables, strings, operations, booleans and operators	✓ Completed
Work with conditionals, data collections, loops and functions	✓ Completed
Understand object-oriented programming in Python	✓ Completed
Use third-party Python modules	✓ Completed
Understand data analytics basics	✓ Completed

Use NumPy, Pandas and Matplotlib for data analytics	✓ Completed
Explore, clean and transform datasets	✓ Completed
Group data and work with date and time data	✓ Completed
Understand business-oriented data analytics and machine learning basics	✓ Completed
Complete a final analytics report based on CO2 emissions data	✓ Completed
Apply AI tools responsible to support work productivity	✓ Completed

Completed syllabus

Module Name	Hours	Description	Status
Course Introduction	1 hr	Introduction to the program and the learning path.	✓ Completed
AI Basics	5 hrs	Learn how AI can support productivity and daily work tasks.	✓ Completed
SQL	10 hrs	Learn SQL basics and how to retrieve and manage data in databases.	✓ Completed
Python in your PC	10 hrs	Set up a coding environment with VSCode, GitHub and Wincpy.	✓ Completed
Variables, Databases & Operations	11 hrs	Learn Python basics: variables, strings, operations, booleans and operators.	✓ Completed
Functions, Conditionals, and Loops	14 hrs	Use functions, conditional logic, data collections and loops in Python.	✓ Completed
Object Oriented Programming	5 hrs	Learn OOP basics and how to use classes and objects in Python.	✓ Completed

Module Name	Hours	Description	Status
Modules & Third Party Codes	5 hrs	Use Python modules and third-party packages in projects.	✓ Completed
Introduction to Data Analytics	1 hr	Learn the basics of data analytics.	✓ Completed
Data Science Tools for Python	22 hrs	Work with data analytics tools such as NumPy, Pandas and Matplotlib.	✓ Completed
Managing Datasets	18 hrs	Explore, clean and transform datasets before analysis.	✓ Completed
Grouping Data and Using Timeseries	12 hrs	Group data and work with date and time data to find patterns.	✓ Completed
Machine Learning and Business Oriented Data Analytics	8 hrs	Learn data analytics and machine learning concepts in a business context.	✓ Completed
Final Project	5 hrs	Write a final analytics report guided by CO2 emissions research questions.	✓ Completed