



# Startel

*Dé IT-opleider*

## Python Fundamentals Rapid Track (ITG-500)

Python is een populaire programmeertaal voor meerdere doeleinden. Deze programmeertaal kan goed van pas komen als je bepaalde taken wilt automatiseren. Door kennis op te doen leer je hoe je Python optimaal kunt benutten. Bovendien wordt Python heel vaak gebruikt in embedded- en Internet of Things-omgevingen.

### Algemene omschrijving

Python is a popular multi-purpose coding language. People who want to learn a programming language turn to Python for its simple syntax and readability. Another important reason to learn Python is that it's used by many automation and orchestration tools. There is big need for Python knowledge if you want to use the full power of this software.

And last but not least, Python is used very often in embedded and Internet of Things environments. This is a rapid pace 3-days course, with a focus on both theory and hands-on labs to quickly allow experienced programmers to get up to speed with Python.

### Doelgroep

Experienced programmers with the ambition to become proficient in the Python programming language in order to solve everyday automation tasks, modify existing Python code or create simple programs.

### Leerdoelen

Learn programming in Python. This is not an exam preparation. The focus of this rapid track course is the practical use of the language.

### Voorkennis

Understanding of programming concepts, Experience with another programming language, e.g.: C, C++, C#, Java, PHP, Perl, Shell, Visual Basic (pre-course skillset-survey applicable).

### Onderwerpen

- Python types.
- Code Flow: Branching.

- Loops.
- Functions: using and defining.
- Iterators and generators.
- Modules and the Standard Library.
- Exceptions.
- Object Oriented Concepts: encapsulation, inheritance, multiple inherit and polimor-phism.
- Object Oriented Programming in Python: class, instance methods, magic methods.