

Introduction to Python Programming (AD141)

Varighed: 4 Days Kursus Kode: AD141 Leveringsmetode: Company event (Firmakursus)

Beskrivelse:

Python programming for beginners

Python is a popular programming language used by system administrators, data scientists, and developers to create web applications, custom Red Hat Ansible Automation modules, perform statistical analysis, and train AI/ML models.

This course introduces the Python language and teaches fundamental concepts like control flow, loops, data structures, functions, file I/O, regular expressions, parsing JSON, and debugging.

This course is based on Python 3 and RHEL 9.0.

Note: Starting January 2026 this course only exists in CR (classroom) if scheduled or Closed course modalities. No RHLS-Course for this course.

Customer can get access to the e-learning course content by purchasing a RedHat RHLS Standard subscription (access to the entire RedHat E-learning offering) - Contact us

Updated Jan2026

Firmakursus

Med et firmakursus bliver jeres it-kompetenceudvikling målrettet jeres behov. Det betyder, at vi hjælper med at finde og sammensætte det helt rigtige kursusindhold og den helt rigtige form. Kurset kan afvikles hos os eller kunden, standard eller virtuelt.

Målgruppe:

System administrators and DevOps personnel who want to use Python to automate operating system tasks Developers from other programming languages who want to learn Python for writing applications AI/ML, data scientists, and engineers who want to use Python for data analysis and machine learning

Agenda:

- After this course participants should be able to:
- Understand the basics of Python syntax, functions and data types
- Understand how to debug Python scripts using the Python debugger (pdb)
- Use Python data structures like dictionaries, sets, tuples and lists to handle compound data
- Learn Object-oriented programming in Python and Exception Handling
- Know how to read and write files in Python and parse JSON data
- Use powerful regular expressions in Python to manipulate text
- Understand how to effectively structure large Python programs using modules and namespaces
- Manage how to use third-party libraries using the pip CLI tool.

Forudsætninger:

- There are no specific prerequisites for this course except basic understanding of programming concepts.

Test og certificering

-

Yderligere Kurser:

This course is part of the “Red Hat Training Presents” program. The courses in this program provide introductory content to get you started with the technology, and are complementary to other Red Hat Training offerings. This introductory Python course prepares you for:

- Ansible Basics: Automation Technical Overview (DO007)
- Red Hat Enterprise Linux Automation with Ansible (RH294- AU294)

Indhold:

An Overview of Python 3	Decompose your programs into composable functions	Data Structures
Introduction to Python and setting up the developer environment	Modules	Use advanced data structures like generators and comprehensions to reduce boilerplate code
Basic Python Syntax	Organize your code using Modules for flexibility and reuse	Regular Expressions
Explore the basic syntax and semantics of Python	Classes in Python	Use powerful regular expressions to manipulate textual data
Language Components	Explore Object Oriented Programming (OOP) with classes and objects	Parsing JSON
Understand the basic control flow features and operators	Exceptions	Read and write JSON data
Collections	Handle runtime errors using Exceptions	Debugging
Write programs that manipulate compound data using lists, sets, tuples and dictionaries	Input and Output	Debug Python programs using the Python debugger (pdb)
Functions	Implement programs that read and write files	

Additional Information:

Impact on the organization

Python is the language of choice for engineering and operations teams in the domain of AI/ML, data science, scientific computing, system administration scripts, and modern cloud-native microservices development. With its simple and readable syntax, its large and powerful standard library, and enormous ecosystem of third party libraries, Python allows organizations to experiment, prototype and bring solutions to market quickly and efficiently.

This course provides a thorough introduction to Python and teaches the syntax, semantics, idioms, tools and libraries to implement Python programs.

Impact of this training

As a result of attending this course, you will be able to program in Python. You will be able to achieve this through learning and demonstrating the following skills: Quickly prototype and experiment with using Python's easy to read syntax, dynamic typing and powerful data types Read and write files and JSON data Structure large programs using modules and Object Oriented Programming Handle errors using Exceptions and troubleshoot applications using the Python debugger Manipulate text data using powerful regular expressions and the standard library String functions

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

training@globalknowledge.dk

www.globalknowledge.com/da-dk/

Global Knowledge, Stamholmen 110, 2650 Hvidovre