

## Programming for Network Engineers (CPLL-PRNE)

Duration: 180 days

The Programming for Network Engineers (PRNE) training is designed to equip you with fundamental skills in Python programming. Through a combination of lectures and lab experience, you will learn to use Python basics to create useful and practical scripts with Netmiko to retrieve data and configure network devices.

### Skills You'll Learn

- Explore introductory concepts of Python programming, such as data types, loops, classes, and modules
- Learn how to create useful and practical Python scripts
- Examine the options for Python data manipulation and storage

### Learning Path Objectives

After taking this training, you should be able to:

- Create a Python script
- Describe data types commonly used in Python coding
- Describe Python strings and their use cases
- Describe Python loops, conditionals, operators, and their purposes and use cases
- Describe Python classes, methods, functions, namespaces, and scopes
- Describe the options for Python data manipulation and storage
- Describe Python modules and packages, their uses, and their benefits
- Explain how to manipulate user input in Python
- Describe error and exception management in Python
- Describe Python code debugging methods