

## Certificate of Course Completion

---

### **PCAP: Programming Essentials in Python (Parts 1 and 2)**

#### **Contents (70 hours):**

##### **Part 1**

- Introduction to Python and computer programming
- Data types, variables, basic input-output operations, basic operators
- Boolean values, conditional execution, loops, lists and list processing, logical and bitwise operations
- Functions, tuples, dictionaries, and data processing
- Modules, packages, string and list methods, and exceptions

##### **Part 2**

- Modules, packages, string and list methods, and exceptions
- The object-oriented approach: classes, methods, objects, and the standard objective features; exception handling, and working with files

**Ehsan ESTAJI**

Student

**Université du Luxembourg**

Academy Name

**Belval, Luxembourg**

Location

**Jaruwan Mesit**

Instructor

**02/12/2020**

Date



Signature