Digital Learning Hub_

Certificate of participation

Issued to	:	Arsen TURELYK
Title of the course	:	

JAVA - Advanced Java Programming

Date of the course	:	from 02/10/2023 to 06/10/2023
Hours of training	:	20 (100%)
Attendance rate	:	100%

Esch-sur-Alzette, 12 October 2023

Dr. Serge Linckels
Deputy Director for the Vocational and
Educational Training

JAVA - Advanced Java Programming

Content

- Functions and procedures
- Arrays and lists
- Search and sorting algorithms
- Data structures
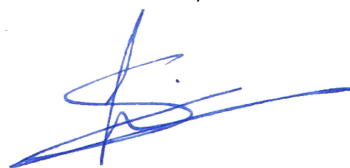- Computational complexity

Objectives

This programming course uses a practical training model. Each course section introduces the topics with brief presentations and task modelling, which is followed directly by learner application and hands-on practice with exercises and projects. Learners will work with functions, organize code in an efficient way, and store and manage data in arrays and lists, thus building on the content of Module 1 - Introduction to computational thinking and Java programming and gaining deeper knowledge of software creation in Java programming language.

Learning Outcomes

On completion of this course, participants will be able to

- design, create and debug source code.
- use functions and procedures in their code.
- use arrays and lists to organize data.
- sort data in arrays and lists.

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