Sustainable IT Operations

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This curriculum prepares learners to implement and manage sustainable IT operations, green technology infrastructure, and environmental monitoring systems.

EQF Level 5 | 2.0 ECTS | 1 Modules | Work-Based Learning: 5 hours

# Programme Overview

**Role Focus:** Sustainable IT infrastructure and operations

**Target Audience:** IT professionals and engineers seeking to integrate sustainability principles into technical operations and infrastructure management

**Learning Approach:** EQF Level 5 professional development program with 2.0 ECTS, combining theoretical knowledge with practical application through structured learning and workplace integration.

# Assessment Framework

**Primary Method:** Technical operations portfolio

**Assessment Components:**

**• Infrastructure implementation project:** 45%

**• System optimization task:** 30%

**• Environmental monitoring setup:** 25%

**Rationale:** Operations programs emphasize hands-on technical competency and practical implementation skills

# Delivery Framework

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| --- | --- |
| Total Contact Hours | 30 hours |
| Self-Study Hours | 15 hours |
| Work-Based Hours | 5 hours |
| Work-Based Learning | Integrated |

# Module Structure

## Module 1: Big Data for Environmental Intelligence (EQF 4 Version)

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| --- | --- |
| ECTS Credits | 2.0 |
| EQF Level | 4 (Program: 5) |
| Total Workload | 50.0 hours |
| Contact Hours | 30 hours |
| Self-Study Hours | 15 hours |
| Workplace Hours | 5 hours |

**Description:** Leverage big data technologies to analyze environmental patterns and trends (This module has been adapted for EQF level 4.)

### Learning Outcomes:

**Knowledge:** Evaluate foundational concepts of big data for environmental intelligence (eqf 4 version) and their application to sustainable IT operations and infrastructure development within sustainability applications.

**Skills:** Coordinate data-driven approaches to big data for environmental intelligence (eqf 4 version) to support sustainable it infrastructure and operations in organizational contexts.

**Competence:** Manage projects involving professional responsibilities involving big data for environmental intelligence (eqf 4 version) while ensuring professional standards and stakeholder value.

# Recognition Framework

|  |  |
| --- | --- |
| EQF Level | 5 |
| ECTS Transferable | Yes |
| Bologna Compliant | No |
| Professional Recognition | Industry recognition for Digital Sustainability Engineer competencies at EQF Level 5 |