Sustainability Data Analyst (DAN)

**Learning Pathway: Advanced learning unit in Level 5 Certificate in ESG Data Foundations**

This curriculum prepares learners to conduct comprehensive sustainability data analysis and deliver advanced ESG reporting that meets complex regulatory and stakeholder requirements. Graduates will master sophisticated analytical techniques, regulatory compliance frameworks, and advanced reporting methodologies. They typically serve as senior data specialists responsible for comprehensive sustainability analytics, regulatory compliance management, and the development of data-driven insights that inform strategic decisions.

EQF Level 5 | 7.5 ECTS | 4 Learning Units | Work-Based Learning: 40.0% (exceeds 20% minimum)

# Programme Overview

**Role Focus:** ESG data analysis and regulatory compliance

**Target Audience:** Data analysts with foundational experience seeking to specialise in comprehensive sustainability analytics and advanced ESG reporting systems

**Learning Approach:** EQF Level 5 professional development programme with 7.5 ECTS, combining theoretical knowledge with practical application through structured learning and standardised work-based learning integration.

**Core Tools & Platforms:** Excel, Power BI, ESG databases, TCFD frameworks, GRI standards

# Competence Frameworks Alignment

**GreenComp Framework:** 1.1 Embodying sustainability values, 4.1 Political agency, 4.3 Collective action

## e-CF Framework (Detailed Mapping)

**A.1:** IS and Business Strategy Alignment - Level 2

**A.7:** Technology Trend Monitoring - Level 2

**B.6:** Systems Engineering - Level 1

*Learning outcomes are mapped directly to GreenComp and e-CF framework descriptors*

# Dual Education Model & Work-Based Learning

**WBL Compliance:** 40.0% work-based learning (exceeds minimum 20%)

## Model Implementation

**Minimum Wbl Percentage:** 20

**Employer Partnership:** Mandatory for all programmes

**Workplace Learning:** Integrated throughout curriculum

**Assessment Split:** 70% academic, 30% workplace-based

## Quality Assurance

**Workplace Standards:** Standardised workplace learning environments

**Mentor Qualifications:** Certified workplace mentors

**Assessment Criteria:** Unified workplace assessment standards

**Monitoring Systems:** Regular quality monitoring of WBL delivery

# Flexible Learning Pathways

**Modular Design:** Learning units designed for flexible recombination

**Competence Catalog:** Integrated with competence-based learning unit catalog

**Stackability Options:** Horizontal and vertical stacking supported

**Pathway Flexibility:** Multiple entry and exit points available

# Assessment Framework

**Primary Method:** Advanced analytical portfolio

**Work-Based Component:** Advanced workplace analytics and compliance reporting

**Assessment Components:**

**• Complex data analysis project:** 45%

**• Regulatory compliance case study:** 30%

**• ESG reporting system design:** 25%

**Rationale:** Advanced analysis programmes require sophisticated application of analytical techniques and regulatory knowledge

# Delivery Framework

|  |  |
| --- | --- |
| **Total Contact Hours** | 64 hours |
| **Self-Study Hours** | 46 hours |
| **Work-Based Hours** | 75 hours |
| **WBL Percentage** | 40.0% (exceeds 20% minimum) |
| **Work-Based Learning** | Integrated (dual education model) |
| **Delivery Methods** | Classroom, Online, Workplace, Blended |

# Learning Unit Structure

## Learning Unit 1: Introduction to Digital Sustainability

*This learning unit forms part of the Advanced learning unit in Level 5 Certificate in ESG Data Foundations*

|  |  |
| --- | --- |
| **ECTS Credits** | 0.5 |
| **EQF Level** | 5 (Programme: 5) |
| **Total Workload** | 12.5 hours |
| **Contact Hours** | 4 hours |
| **Self-Study Hours** | 3 hours |
| **Workplace Hours** | 5 hours |
| **WBL Percentage** | 40.0% |
| **Thematic Area** | Foundation |

**Description:** Core sustainability concepts and their intersection with technology systems for digital professionals

### Work-Based Learning Integration

**Employer Partnerships:** Financial services, manufacturing, energy sectors

**Mentor Support:** Workplace mentor assigned for practical guidance

**Workplace Activities:**

• ESG data collection projects

• Regulatory reporting tasks

• Audit support activities

### Learning Outcomes

**Knowledge:** Compare regulatory compliance requirements for introduction to digital sustainability within professional sustainability practice.

*Framework: GreenComp: 4.1 Political agency*

**Skills:** Organise Power BI visualisation of introduction to digital sustainability metrics to support organisational sustainability objectives.

*Framework: e-CF: Technology Trend Monitoring - Level 2*

**Competence:** Contribute to team leadership in regulatory reporting activities related to introduction to digital sustainability while ensuring professional standards and stakeholder value.

*Framework: e-CF: Systems Engineering - Level 1*

## Learning Unit 2: Sustainability Data Fundamentals

*This learning unit forms part of the Advanced learning unit in Level 5 Certificate in ESG Data Foundations*

|  |  |
| --- | --- |
| **ECTS Credits** | 2.0 |
| **EQF Level** | 4 (Programme: 5) |
| **Total Workload** | 50.0 hours |
| **Contact Hours** | 17 hours |
| **Self-Study Hours** | 12 hours |
| **Workplace Hours** | 20 hours |
| **WBL Percentage** | 40.0% |
| **Thematic Area** | Data & Analytics |

**Description:** Essential data skills for sustainability professionals requiring immediate deployment

### Work-Based Learning Integration

**Employer Partnerships:** Financial services, manufacturing, energy sectors

**Mentor Support:** Workplace mentor assigned for practical guidance

**Workplace Activities:**

• ESG data collection projects

• Regulatory reporting tasks

• Audit support activities

### Learning Outcomes

**Knowledge:** Evaluate data validation methodologies in sustainability data fundamentals within professional sustainability practice.

*Framework: GreenComp: 4.3 Collective action*

**Skills:** Plan ESG database management for sustainability data fundamentals to support organisational sustainability objectives.

*Framework: e-CF: Systems Engineering - Level 1*

**Competence:** Coordinate activities in audit support activities related to sustainability data fundamentals while ensuring professional standards and stakeholder value.

*Framework: e-CF: IS and Business Strategy Alignment - Level 2*

## Learning Unit 3: Corporate Sustainability Reporting Directive (CSRD) Implementation

*This learning unit forms part of the Advanced learning unit in Level 5 Certificate in ESG Data Foundations*

|  |  |
| --- | --- |
| **ECTS Credits** | 0.5 |
| **EQF Level** | 5 (Programme: 5) |
| **Total Workload** | 12.5 hours |
| **Contact Hours** | 4 hours |
| **Self-Study Hours** | 3 hours |
| **Workplace Hours** | 5 hours |
| **WBL Percentage** | 40.0% |
| **Thematic Area** | EU Legislation |

**Description:** Step-by-step guide to CSRD compliance and sustainability reporting requirements

### Work-Based Learning Integration

**Employer Partnerships:** Financial services, manufacturing, energy sectors

**Mentor Support:** Workplace mentor assigned for practical guidance

**Workplace Activities:**

• ESG data collection projects

• Regulatory reporting tasks

• Audit support activities

### Learning Outcomes

**Knowledge:** Assess audit trail requirements for corporate sustainability reporting directive (csrd) implementation within professional sustainability practice.

*Framework: GreenComp: 1.1 Embodying sustainability values*

**Skills:** Design compliance reporting using corporate sustainability reporting directive (csrd) implementation to support organisational sustainability objectives.

*Framework: e-CF: IS and Business Strategy Alignment - Level 2*

**Competence:** Support management of compliance validation tasks in corporate sustainability reporting directive (csrd) implementation while ensuring professional standards and stakeholder value.

*Framework: e-CF: Technology Trend Monitoring - Level 2*

## Learning Unit 4: Big Data for Environmental Intelligence (EQF 4 Version)

*This learning unit forms part of the Advanced learning unit in Level 5 Certificate in ESG Data Foundations*

|  |  |
| --- | --- |
| **ECTS Credits** | 4.5 |
| **EQF Level** | 4 (Programme: 5) |
| **Total Workload** | 112.5 hours |
| **Contact Hours** | 39 hours |
| **Self-Study Hours** | 28 hours |
| **Workplace Hours** | 45 hours |
| **WBL Percentage** | 40.0% |
| **Thematic Area** | Data |

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

### Work-Based Learning Integration

**Employer Partnerships:** Financial services, manufacturing, energy sectors

**Mentor Support:** Workplace mentor assigned for practical guidance

**Workplace Activities:**

• ESG data collection projects

• Regulatory reporting tasks

• Audit support activities

### Learning Outcomes

**Knowledge:** Investigate ESG reporting standards relevant to big data for environmental intelligence (eqf 4 version) within professional sustainability practice.

*Framework: GreenComp: 4.1 Political agency*

**Skills:** Manage Excel-based analysis of big data for environmental intelligence (eqf 4 version) data to support organisational sustainability objectives.

*Framework: e-CF: Technology Trend Monitoring - Level 2*

**Competence:** Take responsibility for ESG data collection projects involving big data for environmental intelligence (eqf 4 version) while ensuring professional standards and stakeholder value.

*Framework: e-CF: Systems Engineering - Level 1*

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