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**Core Skills Signposting**

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| **Sector** | **Land-based and Environmental** |
| **Qualification Title(s)** | **SVQ in Land-based Engineering (Agriculture) at SCQF Level 5** **SVQ in Land-based Engineering (Arboriculture/Forestry) at SCQF Level 5****SVQ in Land-based Engineering (Ground Care) at SCQF Level 5****SVQ in Land-based Engineering (Agriculture) at SCQF Level 6** **SVQ in Land-based Engineering (Arboriculture/Forestry) at SCQF Level 6** **SVQ in Land-based Engineering (Ground Care) at SCQF Level 6** |
| **Developed by** | **Lantra** |
| **Approved by ACG** | **06/02/2019** |
| **Version**  | 1 |

## Introduction

Core Skills signposting indicates if there are opportunities within units to develop Core Skills in the workplace to a specified SCQF level. The signposting document should also acknowledge where there are no opportunities to develop Core Skills. This signposting can be used by providers and assessors to plan the development and assessment of Core Skills.

The five Core Skills are:

 Communication

 Information and Communication Technology

 Numeracy

 Problem Solving

 Working with Others

\*SSO may insert additional introductory text to contextualise the core skills signposting to their sector\*

**Qualification Structure for SVQ in Land-based Engineering (Agriculture) at SCQF Level 5**

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| Candidates to complete all 10 Core Mandatory units plus 8 Optional units (18 units in total)4 Optional units to be taken from Section One and 4 units from Section 2 (one of which can be from Section One if not already undertaken) |

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| **Core Mandatory Units – All candidates to complete all ten units** |
| LANCS2 | Monitor and maintain health, safety and security |
| LANCS4 | Establish and maintain working relationships with others |
| LANLEO4 | Apply core land-based engineering principles: mechanical principles |
| LANLEO5 | Apply core land-based engineering principles: tools and equipment |
| LANLEO6 | Apply core land-based engineering principles: material preparation, shaping and assembling |
| LANLEO8 | Apply core land-based engineering principles: servicing and maintenance |
| LANLEO9 | Apply core land-based engineering principles: thermal joining processes |
| LANLEO10 | Apply core land-based engineering principles: cooling and lubrication |
| LANLEO11 | Service and maintain engines on land-based equipment |
| LANLEO22 | Service and repair electrical systems on land-based equipment |
| **Optional Units Section One – All candidates to complete four units** |
| LANLEO12 | Service and repair clutches and other transmission controlling devices on land-based equipment |
| LANLEO13 | Service and repair mechanical transmission assemblies on land-based equipment |
| LANLEO14 | Service and repair braking systems on land-based equipment |
| LANLEO15 | Service and repair wheeled and tracked steering systems on land-based equipment |
| LANLEO16 | Service and repair wheels and tracks on land-based equipment |
| **Optional Units Section Two – All candidates to complete four units. One unit can be from Section One if not already undertaken** |
| LANLEO17 | Service and repair land-based cutting and mowing equipment |
| LANLEO18 | Service and repair land-based harvesting and processing equipment |
| LANLEO19 | Service and repair land-based soil preparation, cultivation and plant establishment equipment |
| LANLEO20 | Service and repair land-based transport, handling and storage equipment |
| LANLEO32 | Service and repair land-based treatment application equipment |
| **Additional Unit - This unit is not compulsory but can be undertaken if required** |
| LANLEO2 | Implement organisational procedures in land-based engineering |

**Qualification Structure for SVQ in Land-based Engineering (Arboriculture/Forestry) at SCQF Level 5**

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| Candidates to complete all 10 Core Mandatory units plus 5 Optional units (15 units in total)3 Optional units to be taken from Section One and 2 units from Section 2 (one of which can be from Section One if not already undertaken) |

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| **Core Mandatory Units – All candidates to complete all ten units** |
| LANCS2 | Monitor and maintain health, safety and security |
| LANCS4 | Establish and maintain working relationships with others |
| LANLEO4 | Apply core land-based engineering principles: mechanical principles |
| LANLEO5 | Apply core land-based engineering principles: tools and equipment |
| LANLEO6 | Apply core land-based engineering principles: material preparation, shaping and assembling |
| LANLEO8 | Apply core land-based engineering principles: servicing and maintenance |
| LANLEO9 | Apply core land-based engineering principles: thermal joining processes |
| LANLEO10 | Apply core land-based engineering principles: cooling and lubrication |
| LANLEO11 | Service and maintain engines on land-based equipment |
| LANLEO22 | Service and repair electrical systems on land-based equipment |
| **Optional Units Section One – All candidates to complete three units** |
| LANLEO12 | Service and repair clutches and other transmission controlling devices on land-based equipment |
| LANLEO13 | Service and repair mechanical transmission assemblies on land-based equipment |
| LANLEO14 | Service and repair braking systems on land-based equipment |
| LANLEO15 | Service and repair wheeled and tracked steering systems on land-based equipment |
| LANLEO16 | Service and repair wheels and tracks on land-based equipment |
| **Optional Units Section Two – All candidates to complete two units. One unit can be from Section One if not already undertaken** |
| LANLEO17 | Service and repair land-based cutting and mowing equipment |
| LANLEO18 | Service and repair land-based harvesting and processing equipment |
| LANLEO19 | Service and repair land-based soil preparation, cultivation and plant establishment equipment |
| LANLEO20 | Service and repair land-based transport, handling and storage equipment |
| LANLEO32 | Service and repair land-based treatment application equipment |
| **Additional Unit - This unit is not compulsory but can be undertaken if required** |
| LANLEO2 | Implement organisational procedures in land-based engineering |

**Qualification Structure** **for SVQ in Land-based Engineering (Ground Care) at SCQF Level 5**

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| Candidates to complete all 10 Core Mandatory units plus 5 Optional units (15 units in total)4 Optional units to be taken from Section One and 4 units from Section 2 (one of which can be from Section One if not already undertaken) |

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| **Core Mandatory Units – All candidates to complete all ten units** |
| LANCS2 | Monitor and maintain health, safety and security |
| LANCS4 | Establish and maintain working relationships with others |
| LANLEO4 | Apply core land-based engineering principles: mechanical principles |
| LANLEO5 | Apply core land-based engineering principles: tools and equipment |
| LANLEO6 | Apply core land-based engineering principles: material preparation, shaping and assembling |
| LANLEO8 | Apply core land-based engineering principles: servicing and maintenance |
| LANLEO9 | Apply core land-based engineering principles: thermal joining processes |
| LANLEO10 | Apply core land-based engineering principles: cooling and lubrication |
| LANLEO11 | Service and maintain engines on land-based equipment |
| LANLEO22 | Service and repair electrical systems on land-based equipment |
| **Optional Units Section One – All candidates to complete three units** |
| LANLEO12 | Service and repair clutches and other transmission controlling devices on land-based equipment |
| LANLEO13 | Service and repair mechanical transmission assemblies on land-based equipment |
| LANLEO14 | Service and repair braking systems on land-based equipment |
| LANLEO15 | Service and repair wheeled and tracked steering systems on land-based equipment |
| LANLEO16 | Service and repair wheels and tracks on land-based equipment |
| **Optional Units Section Two – All candidates to complete two units. One unit can be from Section One if not already undertaken** |
| LANLEO17 | Service and repair land-based cutting and mowing equipment |
| LANLEO18 | Service and repair land-based harvesting and processing equipment |
| LANLEO19 | Service and repair land-based soil preparation, cultivation and plant establishment equipment |
| LANLEO20 | Service and repair land-based transport, handling and storage equipment |
| LANLEO32 | Service and repair land-based treatment application equipment |
| IMIEV4 | Isolate and reinstate an electric and hybrid vehicle |
| **Additional Unit - This unit is not compulsory but can be undertaken if required** |
| LANLEO2 | Implement organisational procedures in land-based engineering |

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| **Core Skills Signposting for SVQs in Land-based Engineering at SCQF level 5 (including Agriculture, Arboriculture/Forestry and Ground Care)** |
| URN | Unit title | Communication | ICT | Numeracy | Problem Solving | Working with Others |
| **Core mandatory Units** |
| LANCS2 | Monitor and maintain health, safety and security | 4 |  |  | 4 | 4 |
| LANCS4 | Establish and maintain working relationships with others | 5 |  | 4 | 5 | 5 |
| LANLEO4 | Apply core land-based engineering principles: mechanical principles | 4 | 4 | 4 |  |  |
| LANLEO5 | Apply core land-based engineering principles: tools and equipment |  |  | 4 |  |  |
| LANLEO6 | Apply core land-based engineering principles: material preparation, shaping and assembling |  |  | 4 |  |  |
| LANLEO8 | Apply core land-based engineering principles: servicing and maintenance | 4 |  |  |  |  |
| LANLEO9 | Apply core land-based engineering principles: thermal joining processes |  |  |  | 4 |  |
| LANLEO10 | Apply core land-based engineering principles: cooling and lubrication |  |  |  | 4 |  |
| LANLEO11 | Service and maintain engines on land-based equipment | 4 |  |  |  | 4 |
| LANLEO22 | Service and repair electrical systems on land-based equipment | 4 |  | 4 | 4 |  |
| **Optional Units** |
| LANLEO12 | Service and repair clutches and other transmission controlling devices on land-based equipment | 4 |  | 4 | 5 | 4 |
| LANLEO13 | Service and repair mechanical transmission assemblies on land-based equipment | 4 |  | 4 | 5 | 4 |
| LANLEO14 | Service and repair braking systems on land-based equipment | 4 |  | 4 | 5 | 4 |
| LANLEO15 | Service and repair wheeled and tracked steering systems on land-based equipment | 4 |  | 4 | 5 |  |
| LANLEO16 | Service and repair wheels and tracks on land-based equipment | 4 |  | 4 | 4 | 5 |
| LANLEO17 | Service and repair land-based cutting and mowing equipment |  |  |  | 5 |  |
| LANLEO18 | Service and repair land-based harvesting and processing equipment |  |  |  | 5 |  |
| LANLEO19 | Service and repair land-based soil preparation, cultivation and plant establishment equipment |  |  |  | 5 |  |
| LANLEO20 | Service and repair land-based transport, handling and storage equipment |  |  |  | 5 |  |
| LANLEO32 | Service and repair land-based treatment application equipment | 4 |  | 4 | 5 |  |
| IMIEV4 | Isolate and reinstate an electric and hybrid vehicle | 4 | 4 |  | 4 | 4 |
| **Additional Unit** |
| LANLEO2 | Implement organisational procedures in land-based engineering | 5 | 5 | 4 | 4 | 4 |

**Qualification Structure for SVQ in Land-based Engineering (Agriculture) at SCQF Level 6**

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| Candidates to complete all 9 Core Mandatory units plus 4 Optional units (13 units in total) |

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| **Core Mandatory Units – All candidates to complete all nine units** |
| CFABAA625 | Agree how to manage and improve own performance in a business environment |
| LANLEO1 | Work safely in the land-based engineering work area |
| LANLEO2 | Implement organisational procedures in land-based engineering |
| LANLEO3 | Deliver customer care in land-based engineering |
| LANLEO7 | Apply core land-based engineering principles: calculations |
| LANLEO23 | Service and repair electronic control and monitoring systems on land-based equipment |
| LANLEO24 | Service and repair hydraulic systems on land-based equipment |
| LANLEO30 | Inspect and test land-based machinery and equipment |
| LANLEO31 | Overhaul and repair engines on land-based equipment |
| **Optional Units – All candidates to complete four units** |
| LANLEO21 | Service and repair suspension systems on land-based equipment |
| LANLEO25 | Service and repair pneumatic systems on land-based equipment |
| LANLEO26 | Service and repair step-less or power-shift transmission systems on land-based equipment |
| LANLEO27 | Handle refrigerants |
| LANLEO28 | Service and repair land-based air-conditioning/refrigeration systems |
| LANLEO29 | Carry out the handover and installation of land-based equipment |

**Qualification Structure for SVQ in Land-based Engineering (Arboriculture/Forestry) at SCQF Level 6**

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| Candidates to complete all 9 Core Mandatory units plus 4 Optional units (13 units in total) |

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| **Core Mandatory Units – All candidates to complete all nine units** |
| CFABAA625 | Agree how to manage and improve own performance in a business environment |
| LANLEO1 | Work safely in the land-based engineering work area |
| LANLEO2 | Implement organisational procedures in land-based engineering |
| LANLEO3 | Deliver customer care in land-based engineering |
| LANLEO7 | Apply core land-based engineering principles: calculations |
| LANLEO23 | Service and repair electronic control and monitoring systems on land-based equipment |
| LANLEO24 | Service and repair hydraulic systems on land-based equipment |
| LANLEO30 | Inspect and test land-based machinery and equipment |
| LANLEO31 | Overhaul and repair engines on land-based equipment |
| **Optional Units – All candidates to complete four units** |
| LANLEO21 | Service and repair suspension systems on land-based equipment |
| LANLEO25 | Service and repair pneumatic systems on land-based equipment |
| LANLEO26 | Service and repair step-less or power-shift transmission systems on land-based equipment |
| LANLEO27 | Handle refrigerants |
| LANLEO28 | Service and repair land-based air-conditioning/refrigeration systems |
| LANLEO29 | Carry out the handover and installation of land-based equipment |

**Qualification Structure for SVQ in Land-based Engineering**

**(Ground Care) at SCQF Level 6**

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| Candidates to complete all 8 Core Mandatory units plus 5 Optional units (13 units in total) |

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| **Core Mandatory Units – All candidates to complete all eight units** |
| CFABAA625 | Agree how to manage and improve own performance in a business environment |
| LANLEO1 | Work safely in the land-based engineering work area |
| LANLEO2 | Implement organisational procedures in land-based engineering |
| LANLEO3 | Deliver customer care in land-based engineering |
| LANLEO7 | Apply core land-based engineering principles: calculations |
| LANLEO24 | Service and repair hydraulic systems on land-based equipment |
| LANLEO30 | Inspect and test land-based machinery and equipment |
| LANLEO31 | Overhaul and repair engines on land-based equipment |
| **Optional Units – All candidates to complete five units** |
| LANLEO21 | Service and repair suspension systems on land-based equipment |
| LANLEO23 | Service and repair electronic control and monitoring systems on land-based equipment |
| LANLEO25 | Service and repair pneumatic systems on land-based equipment |
| LANLEO26 | Service and repair step-less or power shift transmission systems on land-based equipment |
| LANLEO27 | Handle refrigerants |
| LANLEO28 | Service and repair land-based air-conditioning/refrigeration systems |
| LANLEO29 | Carry out the handover and installation of land-based equipment |

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| **Core Skills Signposting for SVQs in Land-based Engineering at SCQF level 6 (including Agriculture, Arboriculture/Forestry and Ground Care)** |
| URN | Unit title | Communication | ICT | Numeracy | Problem Solving | Working with Others |
| **Core mandatory Units** |
| CFABAA625 | Agree how to manage and improve own performance in a business environment | 5 |  |  | 5 | 5 |
| LANLEO1 | Work safely in the land-based engineering work area | 5 |  |  | 5 |  |
| LANLEO2 | Implement organisational procedures in land-based engineering | 5 | 5 | 4 | 4 | 4 |
| LANLEO3 | Deliver customer care in land-based engineering | 5 |  |  |  | 5 |
| LANLEO7 | Apply core land-based engineering principles: calculations |  | 5 | 5 |  |  |
| LANLEO23 | Service and repair electronic control and monitoring systems on land-based equipment |  | 5 | 5 |  |  |
| LANLEO24 | Service and repair hydraulic systems on land-based equipment |  |  |  | 5 |  |
| LANLEO30 | Inspect and test land-based machinery and equipment | 5 | 5 |  | 5 | 5 |
| LANLEO31 | Overhaul and repair engines on land-based equipment |  |  | 5 | 5 |  |
| **Optional Units** |
| LANLEO21 | Service and repair suspension systems on land-based equipment | 5 |  | 5 | 5 | 5 |
| LANLEO23 | Service and repair electronic control and monitoring systems on land-based equipment |  | 5 | 5 | 5 |  |
| LANLEO25 | Service and repair pneumatic systems on land-based equipment | 5 |  | 5 | 5 | 5 |
| LANLEO26 | Service and repair step-less or power shift transmission systems on land-based equipment | 5 |  |  | 5 | 5 |
| LANLEO27 | Handle refrigerants | 5 |  |  |  |  |
| LANLEO28 | Service and repair land-based air-conditioning/refrigeration systems | 5 |  | 5 | 5 | 5 |
| LANLEO29 | Carry out the handover and installation of land-based equipment |  |  |  |  | 5 |

*All numbers refer to SCQF level – any blanks indicate no opportunity.*