BEM Micro-credential

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| **BEM content (for all partners)** | Title/name of the credential | Roofer | | |
| Function of the micro- credentials / purpose | The micro-credential is designed to meet the needs of industry-specific skills in the *Construction and Geodesy* sector. | | |
| Possible target groups | interested individuals and construction workers. | | |
| Branch/sector of application | Construction and Geodesy | | |
| Fields of application / work environment | Construction industry companies. | | |
| Typical work/professional tasks | Removal of roofing and flashing Installation of roofing  Repair, maintenance, and replacement of roofing Installation and repair of waterproofing on roofs Installation of sound insulation in attics  Installation of thermal insulation on roofs | | |
|  | Knowledge | Skills | Competencies |

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|  | Learning outcomes (personal and job related) | *The participant will be able to:*   * *Remove roofing and flashing* * *Install materials for sloped and flat roofs* * *Perform repair, maintenance, and replacement of roofing* * *Apply and repair waterproofing materials on roofs* * *Install materials for sound insulation in attic spaces* * *Install materials for thermal insulation on roofs* * *Use personal protective and safety equipment* * *Operate hand and power tools for roofing installation* * *Sort and remove construction waste* | |
| Validation | Criteria | Procedures |
| Inspects hand and power tools for cutting, removing, separating, fastening, and installing roofing  Uses hand and power tools for cutting, removing, separating, fastening, and installing roofing  Sets up equipment for lifting and hoisting roofing materials Removes existing roofing and flashing  Applies underlayment and waterproofing on roofs | |

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|  |  | Installs vapor barriers and vapor-permeable waterproof membranes to prevent water vapor condensation  Installs sound insulation in attic spaces Installs thermal insulation on roofs Installs roofing materials  Fastens roofing materials  Installs flashing, ridge caps, valleys, gutters, ventilation elements, snow guards, etc., on the roof  Performs roof maintenance Repairs roofs  Replaces roofing  Checks the condition of personal protective equipment Uses personal protective equipment  Sorts construction waste  Removes construction waste |
| Recognised/accepted (documented by MoU) | Називи на компании   * Granit AD Skopje * Žikol * DG Beton * Konstruktor Skopje |

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|  |  | The Secondary Construction School from Skopje, *"Zdravko Cvetkovski,"* has established cooperation agreements with these companies. |
| Provider(s) | *Companies*  *SCCS "Zdravko Cvetkovski" of Skopje (conditional)* |
| **Additional information**  **(if needed)** | Entry level / prerequisites | Work experience in the construction sector, specifically in roofing installation |
| Possible duration (recommendation) | The micro-credential is obtained through 50 hours of active instruction. |
| **Specific content (national)**  **(if needed)** | Position in the chain of educational programmes | There is an occupational standard for *Roofer.* |
| Reference to NQF | It is not recognized in the NQF (National Qualifications Framework). |
| Credits | 2 Credits |