BEM Micro-credential

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| **BEM content (for all partners)** | Title/name of the credential | Installer of distribution cabinets | | |
| Function of the micro-credentials / purpose | The purpose of the micro-credential program is to train participants to independently perform tasks related to the selection, control and installation of switchboards in a business- residential building or industrial plant.  Most often, he works in the field of installation works in construction, respecting the current regulations in the field of distribution cabinets. | | |
| Possible target groups | unemployed persons, persons who want to retrain | | |
| Branch/sector of application | electrical engineering, construction, industry and all other sectors that could not function successfully without the use of electricity | | |
| Fields of application  / work environment | residential, business, industrial, electrical operating premises | | |
| Typical work/professional tasks | grouping of appliances and devices in a certain place according to the design and technical documentation in order to transform, ensure, manage and control electrical energy | | |
| Learning outcomes (personal and job related) | Knowledge   * List the measures of safety, health and protection at work and environmental protection * knows the basic terms and definitions of electrical installations * distinguishes between types of low-voltage networks * knows graphic symbols in electrical installations * distinguishes between the types of documentation and records required for the installation of the distribution cabinet * lists the tools, equipment, devices, instruments and accessories for the installation of the distribution cabinet * specify the division of distribution cabinets * list the types of distribution cabinets * knows the types of materials used to make a distribution cabinet * explain how to choose a distribution cabinet * explain the data from the nameplate of the   distribution cabinet | Skills   * chooses the type of distribution cabinet based on the design and technical documentation * uses technical instructions, catalogs and   documentation of the manufacturer of the distribution cabinet   * prepares the workplace, the necessary tools, devices, instruments and accessories for the installation of the distribution cabinet * mounts protective devices in the distribution cabinet on the basis of design and technical documentation * indicates protective devices according to their purpose and circuit to which they belong * mounts the basic elements of electrical equipment in the distribution cabinet according to the type and level of voltage * divides the interior of the distribution cabinet using partitions or barriers into specially separated spaces * respects the minimum distances between non- | Competences   * application of design and technical documentation for the assembly of the distribution cabinet * preparing the workplace for the installation of the distribution cabinet * selection and installation of a suitable switch cabinet * clear and correct configuration of electrical equipment in the distribution cabinet * upgrading of the electrical equipment of the distribution cabinet in case of expanding the capacity of the industrial plant and the like * control and elimination of malfunctions in the functioning of the distribution cabinet * assembly of the distribution cabinet * proper maintenance of the distribution cabinet * application of regulations, standards and measures of safety, health and protection at work and environmental protection |

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|  |  | * describe the purpose of electrical equipment elements that can be installed in the distribution cabinet * explain the arrangement of electrical equipment elements inside the distribution cabinet * knows the types of wiring conductors * knows the marking of the connections of the electrical equipment   elements of the distribution cabinet   * knows the basics of the thermal calculation of the distribution cabinet for the case of subsequent installation of an element of electrical equipment | insulated parts of different poles   * uses especially flexible conductors for wiring the basic elements of electrical equipment according to the design and technical documentation * carries out wiring diagrams between electrical equipment elements of the distribution cabinet * connects the electrical equipment elements of the distribution cabinet according to the connection scheme * tests the continuity between the corresponding connections * conducts tests to check the functionality of the distribution cabinet * mounts the distribution cabinet in its destination * regularly maintains the distribution cabinet to ensure its longevity and functionality * fills in documentation, keeps records of completed tasks according to the work order and prepares a report on completed work * implements and checks the application of rules and measures of safety and health at work as well as environmental protection   in their work | |  |
| Validation | Criteria   * reliability; (compliance of the assessment with established, public and precise assessment criteria); * validity; (the evaluation shows the effects of learning - achievement of the results, engagement and progress of the students); * variety of assessment methods: * (selection of appropriate and application different methods and techniques evaluations to ensure * validity, reliability and objectivity of grades); * assessment without discrimination and selection on any basis; | | Procedures   * formation of the exam room commissions; * determining the list of tasks for the exam; * extracting work assignments; * competence check * by creating assignments; * examination records; * awarding of certificates; | |
| Recognised/accepted  (documented by MoU) | Company name:  Johnson Electric d.o.o. Nis, Serbia | | | |
| Provider(s) | Vocational secondary schools  Publicly recognized organizers of educational activities (JPOA) | | | |

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| **Additional information (if needed)** | Entry level / prerequisites | NOKS level 1 - primary education and upbringing, primary adult education, primary ballet education and upbringing and primary music education and upbringing |
| Possible duration (recommendation) | 125 hours |
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| **Specific content (national) (if needed)** | Position in the chain of educational programmes | Informal training  2nd level of NOKS; 2nd level EOK 5 |
| Reference to NQF |
| Credits |