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;
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| Recognised/accepted(documented by MoU) | Company name:Johnson Electric d.o.o. Nis, Serbia |
| Provider(s) | Vocational secondary schoolsPublicly 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 training2nd level of NOKS; 2nd level EOK 5 |
| Reference to NQF |
| Credits |