

Annex. Learning outcomes and criteria for verification within individual units — construction technician

Learning outcomes and criteria for verification within the 'Health and Safety at Work' unit	
Learning outcomes	Verification criteria
Student:	Student:
Complies with rules on health and safety at work, fire protection, environmental protection and ergonomics.	<ul style="list-style-type: none"> – uses terminology on health and safety at work, fire protection and environmental protection – organises work with the required level of protection of health and life against risks in the working environment – describes fire protection rules – identifies fire safety information signs – draws attention that others implement the principles of health and safety at work, fire safety, environmental protection and ergonomics; – uses personal protective equipment in the performance of professional tasks – applies the rules for the organisation of workstations related to the use of equipment – uses instructions for the use of technical equipment in the performance of professional tasks
Learning outcomes and criteria for verification within the unit 'Handling of the design documentation'	
Learning outcomes	Verification criteria
Student:	Student:
Handles design documentation, technical specifications for the execution and acceptance of the construction works, standards, catalogues and instructions	<ul style="list-style-type: none"> – distinguishes different types of design documentation – reads and uses the information contained in the design documentation – reads from the technical specifications for the execution and acceptance of the works and standards information on the requirements – applies the requirements contained in the technical specifications for the execution and acceptance of works and standards for the performance of professional tasks
Learning outcomes and criteria for verification within the unit "Application of the Bill of Quantities principles"	
Learning outcomes	Verification criteria
Student:	Student:
Applies the rules for carrying out a bill of quantities related to the performance of professional tasks	<ul style="list-style-type: none"> – lays down rules for drawing up a Bill of Quantities – draws up a Bill of Quantities for the performance of the professional tasks entrusted them – calculates the amount of material needed to carry out the work assigned to them

Learning outcomes and criteria for verification within the unit “Preparation and assembly of reinforcement nets and frames”	
Learning outcomes	Verification criteria
Student:	Student:
Selects reinforcing steel, auxiliary materials, tools and equipment needed for reinforcement works	<ul style="list-style-type: none"> – selects reinforcing steel according to design documentation according to its class, grade and diameter – selects auxiliary materials for the transport, laying and assembly of reinforcing steel – selects tools and equipment for cleaning, straightening, cutting and bending reinforcing steel and for assembling reinforcing steel into reinforcing meshes and frames
Performs activities related to cleaning and straightening reinforcing bars	<ul style="list-style-type: none"> – selects methods to clean reinforcing steel depending on the type of contamination – cleans reinforcing bars intended for assembly – applies the straightening rules for reinforcing bars
Performs cutting and bending of reinforcing bars	<ul style="list-style-type: none"> – cuts the reinforcing bars intended for assembly by hand – by machine-use cuts the reinforcing bars intended for assembly – manually and mechanically bends the reinforcing bars intended for assembly – applies the rules of bending and cutting reinforcing bars
Performs activities related to joining reinforcing bars into meshes and reinforcement skeleton	<ul style="list-style-type: none"> – distinguishes between ways of joining reinforcing bars into meshes and reinforcement skeletons – arranges reinforcing bars in accordance with the design documentation – joins the reinforcing bars into meshes and skeletons in accordance with the design documentation – extends the reinforcing bars in accordance with the design documentation and the standard
Learning outcomes and criteria for verification within the unit “Transport, laying and assembly of reinforcements in formwork and moulds”	
Learning outcomes	Verification criteria
Student:	Student:
Selects tools and equipment for assembling weapons in formwork and moulds	<ul style="list-style-type: none"> – selects tools and equipment for assembling reinforcements in formwork and moulds depending on the dimensions and position of the reinforced component
Reinforcing bars, nets and frames in formwork and moulds	<ul style="list-style-type: none"> – specifies the sequence of activities related to the laying of bars, nets and reinforcing frames – defines and applies the rules for laying reinforcing bars and reinforcing nets and frames in formwork and moulds
Makes combinations of reinforcing bars, reinforcement nets and frames in formwork and moulds	<ul style="list-style-type: none"> – selects materials for joining reinforcing bars, meshes and reinforcement frames – joins reinforcement rods, meshes, and frame elements in formwork and moulds – keeps under review the quality of the work of laying and assembling reinforcements in formwork and moulds – assesses the conformity of the position of the reinforcement in the formwork and moulds with the design documentation

Learning outcomes and criteria for verification within the unit “Preparation of building mortars and concrete mixtures”	
Learning outcomes	Verification criteria
Student:	Student:
Makes concrete mixtures and mortars on the basis of recipes	<ul style="list-style-type: none"> – reads from the recipe information on the quantity of components of the concrete mixture and construction mortars – selects types of binders, aggregates and additives for concrete mixtures and mortars based of recipes – selects tools and equipment for making concrete mixtures and mortars – selects mixing water for concrete mixtures and building mortars based on recipes – dispenses the components of concrete mixtures and mortars, based on recipes – mixes components of concrete mixtures and building mortars
Assesses the quality of the concrete mixtures and mortars they made	<ul style="list-style-type: none"> – explains the criteria for quality control of the prepared concrete mixtures and mortars – checks the consistency, binding time and hardening of concrete mixtures and mortars on an ongoing basis – evaluates the properties of concrete mixes and mortars, among others consistency, homogeneity, workability macroscopically evaluates the quality of concrete mixtures and mortars
Learning outcomes and verification criteria under the unit "Performance of works related to concreting and maintenance of fresh concrete and the repair of typical concrete and reinforced concrete elements"	
Learning outcomes	Verification criteria
Student:	Student:
Prepares formwork and moulds for laying the concrete mixture	<ul style="list-style-type: none"> – protects formwork and forms against concrete sticking – arranges the reinforcement in accordance with the rules – arranges elements forming channels, diaphragms and other openings
Layout and compaction of concrete mixture in formwork and moulds	<ul style="list-style-type: none"> – selects concrete mixing tools and equipment – lays concrete mix of various consistency in formwork and forms and of various shapes, taking into account working breaks – selects the method of thickening the concrete mixture based on its consistency – selects tools and equipment for the thickening of concrete mixtures – thickens concrete mixture manually and mechanically – disassembles the formwork and forms in accordance with the disassembly rules applicable to the type of formwork and forms

Learning outcomes and criteria for verification within the unit 'Performance of construction works of a building shell'	
Learning outcomes	Verification criteria
Student:	Student:
Chooses the methods of the construction works to be carried out	<ul style="list-style-type: none"> – reads the scope and technology of concrete, reinforcement, carpentry, bricklaying and assembly works from the design documentation – defines and selects technologies for carrying out these works – describes and applies the means by which these works are to be carried out – describes the rules for adapting construction conditions to the technology for carrying out these works
Selects construction materials, means of transport, equipment and tools for construction work of a building shell	<ul style="list-style-type: none"> – identifies means of transport, equipment and tools for construction work in a building shell – defines the technical characteristics of construction products used to perform construction works in a building shell – selects construction products, means of transport, equipment and tools for construction work in a building shell – performs construction work in a building shell
Learning outcomes and verification criteria within the unit "Performance of finishing and renovation works"	
Learning outcomes	Verification criteria
Student:	Student:
Chooses how to carry out building finishing works	<ul style="list-style-type: none"> – describes the methods of plastering, painting, wallpaper, flooring, cladding and drywall works – chooses how these works are to be carried out
Selects construction products, means of transport, equipment and tools for construction finishing works	<ul style="list-style-type: none"> – identifies construction products, means of transport, equipment and tools for construction finishing works – describes construction products, means of transport, equipment and tools for carrying out certain construction finishing works
Performs finishing and refurbishment works in accordance with the design documentation and the requirements of the superior	<ul style="list-style-type: none"> – performs plastering works in accordance with the documentation and requirements – perform painting work in accordance with the documentation and requirements – performs wallpaper work in accordance with the documentation and requirements – perform flooring work in accordance with the documentation and requirements – performs cladding works in accordance with the documentation and requirements

Learning outcomes and criteria for verification within the unit 'Demolition works'	
Learning outcomes	Verification criteria
Student:	Student:
performs demolition works	<ul style="list-style-type: none"> – selects the methods of securing and marking the area of demolition works of buildings – adapts the methods of carrying out demolition works to the type and size of the works and to the extent of the demolition works; – adapts and selects means of transport, equipment and tools for carrying out these works
Learning outcomes and criteria for verification within the unit "Communicating in English"	
Learning outcomes	Verification criteria
Student:	Student:
uses a basic range of language means in English enabling professional tasks to be carried out	<ul style="list-style-type: none"> – understands simple oral, explicit and standard English language – examines and interprets short written texts related to the performance of typical professional activities – can identify and apply language means to carry out professional activities – formulates short and understandable sentences and written texts on their own; – uses formal English – simplifies (if necessary) statements, replaces unknown words with others, uses non-verbal means – fills the Traineeship Log in English
Learning outcomes and criteria for verification within the 'Personal and social competence' unit	
Learning outcomes	Verification criteria
Student:	Student:
respects the principles of good behaviour and professional ethics	<ul style="list-style-type: none"> – applies the principles of professional behaviour – applies generally accepted standards of behaviour in the working environment, taking into account the culture of the host country – complies with the principles of dress code at the workplace
improves professional skills	<ul style="list-style-type: none"> – shows willingness to acquire new skills on their own initiative – improves performance of professional tasks (e.g. in terms of quality/speed of work)