



WORLD CONSTRUCTION CHAMPIONSHIP

Qualification criteria for applicants in the multi-team nomination "Best Construction Site"

TEAM (SITE) MEMBERS

Eleven (11) workers

- construction manager — 2 people,
- reinforcer — 2 people,
- concrete worker — 2 people,
- manual electric welder — 1 person,
- building systems pipeline installer — 2 people,
- health and safety specialist — 1 person,
- NDT specialist — 1 people.

INDIVIDUAL AND TEAM NOMINATIONS WITHIN THE MULTI-TEAM NOMINATION

Team nomination "Building Systems Pipeline Installation";

Team nomination "General Construction Works";

Individual nomination "Non-Destructive Testing Methods";

Individual nomination "Health and Safety".

APPLICANTS

Currently employed specialists; and students.

COUNTRIES

Russia,
India,
Kazakhstan,
Kyrgyzstan,
Pakistan,
Uzbekistan,
Tajikistan,
Belarus,
Armenia,
Azerbaijan,
Moldova,
Turkmenistan,
Turkey,
Egypt,
Bangladesh,
Hungary.

TEAM NOMINATION "BUILDING SYSTEMS PIPELINE INSTALLATION"

TEAM MEMBERS

Construction manager — 1 people; building systems pipeline installer — 2 people; and manual electric welder — 1 person.

1. CONSTRUCTION MANAGER

GENERAL DESCRIPTION

The construction manager does the following:
Organises the installation work in accordance with the design documentation and requirements of the technical specifications;

Ensures compliance of the technological sequence of installation works with the required quality;
Instructs workers directly at the workplace on safe methods of work performance;

Monitors compliance with health and safety rules and takes measures to eliminate any deficiencies identified;

Keeps records of the work completed; and

Participates in acceptance of completed stages and works.

QUALIFICATION CRITERIA REQUIREMENTS

Manage the production activities of the site area. Ensure the production targets are met on time and the required amount of construction and installation work is done to time and quality, in compliance with regulatory and design requirements. Ensure that employees comply with production and labour discipline, as well as health and safety requirements.

REQUIREMENTS FOR EDUCATION AND AVAILABILITY OF SPECIAL PERMITS

For currently employed specialists:

Higher vocational (technical) education and at least 3 years' experience of working in the construction industry in engineering and technical positions or secondary vocational (technical) education and at least 5 years' experience of working in the construction industry in engineering and technical positions.

Documents:

- copy of the diploma;
- proof of occupational health and safety training, which is in force in the participant's country (copy).

For students:

People of 18 or over who are students of a higher education institution in a technical area.

Documents:

- copy of the document certifying that the person is studying at a higher education institution;
- proof of occupational health and safety training, which is in force in the participant's country (copy).

JOB TITLE (for specialists)

Master, foreman/forewoman, head of the construction site.

SKILLS REQUIREMENTS

- conduct industrial health and safety briefings;
- identify harmful and/or hazardous factors that might affect construction work, workers, and the environment;
- determine the list of necessary collective and/or personal protective equipment for workers;
- perform documentary, visual, and instrumental quality control of the delivered materials and equipment and performed construction and installation work;
- work with flow charts and determine the time required for the work to be performed;

- work with inspection charts indicating the instruments and equipment to be used to control operations;
- determine compliance of the technology and results of the construction and installation work with the design documents, production documents, and flow charts;
- make requisitions for the inspection of welded butt joints;
- work with technical documentation; and
- read and analyse technical documentation in construction to the extent necessary for the type of construction work to be performed.

KNOWLEDGE REQUIREMENTS

- requirements for planning and performing the relevant construction work;
- construction planning and technology;
- design documentation for the work to be performed;
- industrial health and safety, fire safety, and environmental protection requirements;
- standards for the work to be performed;
- systems of planning, scheduling, and allocating the responsibility for construction assignments; and
- main harmful and/or hazardous work factors.

JOB RESPONSIBILITY REQUIREMENTS

- checking the completeness and quality of the design documentation, assessing the compliance of the technical information contained therein with the requirements of the technical documents;
- ensuring that the thermal and mechanical equipment installation works are completed for the given site;
- bringing the construction site into compliance with health, safety, fire, and environmental regulations;
- accepting and checking the completeness of parts, components and units of piping, pipe fittings, and equipment;
- checking that the labeling/markings is in accordance with the working drawings;
- implementing operational planning and control over the execution of thermal and mechanical equipment installation works;
- inspecting the condition of the external surfaces of the equipment, pipeline elements, and pipe fittings;
- controlling adherence to thermal and mechanical equipment installation works technology, the shape of cuts and the condition of the inner surface of the butt edges of pipe joints to be welded;
- inspecting welded joints by visual inspection, etc.; and
- maintaining the applicable as-built documentation for the thermal and mechanical equipment installation works to be performed.

2. BUILDING SYSTEMS PIPELINE INSTALLER

GENERAL DESCRIPTION

The building systems pipeline installer performs individual mechanical, rigging, assembly, and inspection operations as well as the entire range of installation works related to pipework of building systems in compliance with the applicable design and detailed design documentation and regulations. The pipeline installer prepares pipeline elements (pipes, fittings, shaped fitting, flanges) for installation, lays out the routes of pipelines, installs supports and retaining structures, fabricates parts of pipeline elements on site, assembles elements into assembly units, and installs units and pipeline fittings.

QUALIFICATION CRITERIA REQUIREMENTS

Laying out pipe routes. Installing fittings, tees, and sectional bends. Connecting pipes with flanges. Installing pipework and pipe fittings.

REQUIREMENTS FOR EDUCATION AND AVAILABILITY OF SPECIAL PERMITS

For currently employed specialists:

The qualification of Grade 4 or higher in the following professions: "Installer of building systems pipelines" or/and "Installer of building systems equipment and related structures".

Documents:

- document confirming the qualification grade/or a document confirming the right to carry out this type of work.
- proof of health and safety training, which is in force in the participant's country (copy).

For students:

People of 18 or over who are students of a higher education institution in a technical area.

Documents:

- copy of the document certifying that the person is studying at a higher education institution;
- document confirming the qualification of Grade 3 or higher in the following professions: "Installer of building systems pipelines" or/and "Installer of building systems equipment and related structures".
- proof of occupational health and safety training, which is in force in the participant's country (copy).

SKILLS REQUIREMENTS

- comply with the requirements for the installation of pipework for industrial facilities;
- read working drawings and use other design documentation;
- use the supporting documentation to check the completeness and quality of the equipment;
- clean the pipelines of preservative grease, anti-corrosion coatings, and contaminants;
- control the quality of cleaning;
- use measuring tools;
- detect surface defects in pipes and welds;
- perform incoming inspection of butt edges for welding;
- carry out the slinging and moving of goods;
- repair minor defects in the pipes;
- store metal structures, pipes, and pipe spools;
- use manual bench tools;
- use mechanised tools; and
- grind the surface of the welds to the roughness required by the design.

KNOWLEDGE REQUIREMENTS

- design and detailed design documentation for the installation of building systems pipelines for industrial facilities;
- symbols on drawings and diagrams of the equipment to be installed;
- types and grades of pipes, types of piping components; and
- rules of sanitary and personal hygiene.

JOB RESPONSIBILITY REQUIREMENTS

- organising one's workplace in accordance with the assignment and health and safety requirements for this assignment;
- accepting, unpacking, and degreasing piping, fittings, and valves;
- preparing the piping for installation;
- installing piping;
- installing fittings, plugs, and support structures on pipelines; and
- dismantling pipeline elements, supports, and retaining structures.

3. MANUAL ELECTRIC WELDER

GENERAL DESCRIPTION

The welder performs quality control of assemblies to be welded, quality welding of steel structures and pipework using various types of welding in different spatial positions and in compliance with detailed design documentation and working drawings.

QUALIFICATION CRITERIA REQUIREMENTS

Manual arc welding of complex assemblies, structures, and pipelines made of various steels. Manual arc welding of complex building structures and systems that operate under difficult conditions. Welding of complex modular structures, with welds in any spatial position. Fusion welding of various parts of machines, mechanisms, and structures. Fusion welding of complex parts and assemblies.

REQUIREMENTS FOR EDUCATION AND AVAILABILITY OF SPECIAL PERMITS

For currently employed specialists:

A manual welder with Grade 4 or higher qualification, certified in two types of welding: manual argon arc welding and manual arc welding with a coated electrode.

Or: An electric and gas welder with Grade 4 or higher qualification, certified in two types of welding: manual argon arc welding and manual arc welding with a coated electrode.

Or: A welder of Grade 3-4 qualification, certified in two types of welding: manual arc welding with a coated consumable electrode and gas-shielded manual arc welding with a non-consumable electrode. Both types of welding to be performed with respect to complex and critical structures.

Documents:

- document confirming the qualification grade;
- proof of health and safety training, which is in force in the participant's country (copy).

For students:

People of 18 or over who are students of a higher education institution in a technical area.

Documents:

- document confirming the qualification grade/or a document confirming the right to carry out this type of work.
- copy of the document certifying that the person is studying at a higher education institution;
- proof of occupational health and safety training, which is in force in the participant's country (copy).

SKILLS REQUIREMENTS

- read drawings and flow charts;
- select the spatial position of the weld for welding of structural elements (products, sub-assemblies, components);
- use assembly jigs to assemble structural elements (products, sub-assemblies, components) for welding;
- use manual and mechanised tools to prepare structural elements (products, sub-assemblies, components) for welding, deburring of welds, and removal of surface defects after welding;
- use measuring tools to check the assembled elements (products, sub-assemblies, components) for compliance with the geometric dimensions in accordance with the design and production documentation for welding;
- use design, production, and regulatory documentation for the preparatory and assembly operations prior to welding and for cleaning welds after welding;
- check that the welding equipment is working and in good order;
- set up the welding equipment for welding;
- set up the gas apparatus for quality shielding of welded joints;
- master the technique of manual argon arc welding of non-swiveling pipe joints, with welds in any spatial position;
- master the technique of manual arc welding with a coated electrode on non-swiveled pipe joints, with welds in any spatial position;

- check the geometry of the weld with a measuring tool against the requirements of the design and production documentation for welding;
- correct surface defects; and
- check the quality of the welding consumables.

KNOWLEDGE REQUIREMENTS

- the design of the welding equipment;
- the design of gas appliances;
- the physical and chemical properties of the shielding gases;
- the specifics of argon arc welding of steels;
- argon arc welding technology;
- the technology of manual arc welding with a coated electrode;
- the basics of electrical engineering within the scope of the work to be performed;
- methods of inspection and testing of welds;
- types of defects in welds, their causes, methods of prevention and elimination;
- the principle of selecting a welding regime using instruments; and
- grades and types of welding (filler) wire and electrodes, and rules of quality control and preparation for welding.

JOB RESPONSIBILITY REQUIREMENTS

- organising one's workplace in accordance with the assignment and health and safety requirements for this assignment;
- carrying out preparatory and assembly operations prior to welding and clean welded seams after welding;
- making welded joints by manual arc welding (surfacing, cutting) with a coated consumable electrode on complex and critical structures (equipment, products, sub-assemblies, pipelines, components) made of various steels and designed for work under pressure, static, dynamic, and vibration loads;
- making welded joints by manual arc welding (surfacing) with a non-consumable electrode under shielding gas on complex and critical structures (equipment, products, sub-assemblies, pipelines, components) made of various steels and designed for work under pressure, static, dynamic, and vibration loads;
- using a measuring tool to check the structures before and after welding to ensure that their geometric dimensions conform to the requirements of the technical documentation for welding.

TEAM NOMINATION "GENERAL CONSTRUCTION WORKS"

TEAM MEMBERS

Construction manager — 1 person; reinforcer — 2 people; and concrete worker — 2 people.

1. CONSTRUCTION MANAGER

GENERAL DESCRIPTION

The construction manager does the following:
 Organises installation work in accordance with the design and production documents;
 Ensures compliance of the technological sequence of installation works with the required quality;
 Instructs workers directly at the workplace on safe methods of work performance;
 Monitors compliance with health and safety rules and takes measures to eliminate any deficiencies identified;
 Keeps records of the work completed; and Participates in acceptance of completed stages and works.

QUALIFICATION CRITERIA REQUIREMENTS

Manage the production activities of the site area. Ensure the production targets are met on time and the required amount of construction and installation work is done to time and quality, in compliance with regulatory and design requirements. Ensure that employees comply with production and labour discipline, as well as health and safety requirements.

REQUIREMENTS FOR EDUCATION AND AVAILABILITY OF SPECIAL PERMITS

For currently employed specialists:

Higher vocational (technical) education and at least 3 years' experience of working in the construction industry in engineering and technical positions or secondary vocational (technical) education and at least 5 years' experience of working in the construction industry in engineering and technical positions.

Documents:

- copy of the diploma;
- proof of occupational health and safety training, which is in force in the participant's country (copy).

For students:

People of 18 or over who are students of a higher education institution in a technical area.

Documents:

- copy of the document certifying that the person is studying at a higher education institution;
- proof of occupational health and safety training, which is in force in the participant's country (copy).

JOB TITLE (for specialists)

Master, foreman/forewoman, head of the construction site.

SKILLS REQUIREMENTS

- conduct industrial health and safety briefings;
- identify harmful and/or hazardous factors that might affect the construction work, workers, and the environment;
- determine the list of necessary collective and/or personal protective equipment for workers;
- perform documentary, visual, and instrumental quality control of the supplied material and technical resources and performed construction and installation work;
- work with flow charts and determine the time for the work to be performed;
- work with inspection charts indicating the tools and fixtures to be used to control operations;
- determine compliance of the technology and results of the construction and installation work with the design and production documentation and flow charts; and
- work with the design and production documents (read drawings and specifications).

KNOWLEDGE REQUIREMENTS

- requirements for planning and performing the relevant construction work;
- construction planning and technology;
- design documentation for the work to be performed;
- general industrial safety, occupational health and safety, fire safety, and environmental protection requirements;
- standards for the work to be performed;
- systems of planning, scheduling, and allocating the responsibility for construction assignments; and
- main harmful and/or hazardous work factors.

JOB RESPONSIBILITY REQUIREMENTS

- checking the completeness and quality of the design documentation, assessing the compliance of the technical information contained therein with the requirements of the technical documentation;
- planning and controlling over the execution of general construction works;

- supervising the compliance with the technology of general construction works;
- maintaining the applicable as-built documentation for the types of general construction works to be performed;
- determining compliance of the technology and results of the construction work with the design documentation, regulatory technical documents, and flow charts;
- performing operational control of individual construction processes and/or operations;
- controlling the compliance of the location of elements, structures, and parts of the construction project (building or structure) with the requirements of regulatory, technical, and design documentation;
- developing and implementing measures aimed at eliminating the causes of identified deviations in the general construction works from the requirements of the regulatory, technical, and design documentation; and
- carrying out visual and instrumental quality control of the general construction works.

2. REINFORCER

GENERAL DESCRIPTION

The professional reinforcer must be able to fabricate metal reinforcement steel frames to create reinforced concrete structures in accordance with current regulations, including the installation of penetrations and embedded parts.

QUALIFICATION CRITERIA REQUIREMENTS

Bending of reinforcing steel using mechanical machines with more than four bends per bar. Assembling and installing meshes and flat cages of more than 100 kg and double meshes up to 100 kg. Installing single bar reinforcement in arrays, sub-columns, columns, walls, and partition walls. Installing anchor bolts and embedded parts in structures. Aligning installed meshes and frames. Cutting protruding rebars.

REQUIREMENTS FOR EDUCATION AND AVAILABILITY OF SPECIAL PERMITS

For currently employed specialists:

Secondary vocational education in steel and reinforced concrete structure installation, Grade 4 or higher.
Or: Vocational training — retraining and further training and career development programmes in steel and reinforced concrete structure installation, Grade 4 or higher.

Documents:

- document confirming the qualification grade;
- proof of health and safety training, which is in force in the participant's country (copy).

For students:

People of 18 or over who are students of a higher education institution in a technical area.

Qualification document confirming Grade 3 or higher of a reinforcer.

Documents:

- copy of the document certifying that the person is studying at a higher education institution;
- proof of occupational health and safety training, which is in force in the participant's country (copy).

SKILLS REQUIREMENTS

- determine the usability of supplied rebar, embedded parts, etc. (external inspection);
- read working drawings and use other planning and production documents;
- work on machine tools to produce reinforcing bars;
- mark out the position of bars and frameworks in the formwork of simple structures;
- use power tools when preparing reinforcing bars;
- use manual tools for tying reinforcing bars with tying wire; and
- carry out operational quality control in the process of reinforcement fabrication.

KNOWLEDGE REQUIREMENTS

- applicable regulatory requirements;
- how to read drawings and draw up sketches and specifications for the products to be manufactured;
- preparation of rebars for welding;
- rules for marking out and aligning of the location of bars, simple meshes, and flat frameworks in the template or in the conductor against drawings and sketches;
- connection methods of reinforcing bars;
- types and classes of reinforcing bars;
- requirements for the quality of reinforcement work;
- requirements of technical, production, design, and detailed design documentation for manufacturing and assembling of reinforcing frames;
- rules for installation of anchor bolts and embedded parts in structures;
- rules for aligning installed meshes and frames;
- rules for cutting protruding rebars;
- requirements for the workplace, movements when working at heights;
- requirements for personal protective equipment;
- health and safety and fire safety regulations;
- requirements for working with power tools;
- basic methods and means of ensuring safety when working at heights;
- rules of the internal work regulations; and
- rules of sanitary and personal hygiene.

JOB RESPONSIBILITY REQUIREMENTS

- organising one's workplace in accordance with the assignment and health and safety requirements for this assignment;
- performing preparatory works;
- bending reinforcing steel by the manually operated machine;
- assembling and install meshes and flat frames;
- aligning installed meshes and frames;
- installing single bar reinforcement in arrays, sub-columns, columns, walls, partition walls, and curved wall, having marked out the location of the rebars using drawings;
- installing anchor bolts and embedded parts in structures; and
- performing dismantling operations.

3. CONCRETE WORKER

GENERAL DESCRIPTION

The professional concrete worker must be able to manufacture simple metal frameworks of reinforcing steel, install penetrations and embedded parts, install formwork for concreting in accordance with the applicable regulations.

QUALIFICATION CRITERIA REQUIREMENTS

Setting straight panel formwork and installing any types of rectilinear formwork elements.

REQUIREMENTS FOR EDUCATION AND AVAILABILITY OF SPECIAL PERMITS

For currently employed specialists:

Secondary vocational education with the qualification of a concrete worker of Grade 4 or higher.

Or: vocational training — retraining and further training and career development programmes for concrete workers of Grade 4 or higher.

Documents:

- document confirming the qualification grade;
- proof of health and safety training, which is in force in the participant's country (copy).

For students:

People of 18 or over who are students of a higher education institution in a technical area.

Qualification document confirming Grade 3 or higher of a concrete worker.

Documents:

- copy of the document certifying that the person is studying at a higher education institution;
- proof of occupational health and safety training, which is in force in the participant's country (copy).

SKILLS REQUIREMENTS

- use manual and mechanised tools to perform the required type of works;
- read working drawings and use other planning and production documents;
- select tools, equipment, fittings, and materials for the applicable installation works;
- prepare fasteners for installation;
- install and remove fasteners;
- install the rectilinear and curved formwork according to the design;
- install elements of suspended slab formwork;
- carry out operational quality control in the process of formwork installation;
- install and secure angle braces;
- apply rules for marking out and aligning of the geometric dimensions of the structure against drawings and sketches;
- install anchor bolts and embedded parts in structures; and
- assemble, install, and disassemble formwork systems of various types.

KNOWLEDGE REQUIREMENTS

- applicable technical requirements;
- how to read applicable drawings, draw sketches, and write specifications;
- rules for formwork installation;
- rules for marking out and aligning of the geometric dimensions of the structure being assembled using drawings and sketches;
- types of concrete and reinforced concrete goods and structures;
- requirements for the formwork and rebar before the installations;
- the purpose and use of the basic tools and equipment when installing the formwork;
- labeling of bolts and nuts;
- labeling of the formwork system components;
- installation techniques of the required formwork system;
- quality requirements for the formwork installation and concreting of the structures;
- requirements of production, design, and detailed design documentation for manufacturing and assembling of the formwork;
- requirements for the workplace;
- requirements for personal protective equipment;
- health and safety and fire safety regulations;
- the operation and maintenance of power tools;
- rules of the internal work regulations; and
- rules of sanitary and personal hygiene.

JOB RESPONSIBILITY REQUIREMENTS

- performing preparatory work before concreting;
- organising one's workplace in accordance with the assignment and health and safety requirements for this assignment;

- assembling the formwork;
- assembling and installing meshes and flat frames; and
- performing dismantling operations.

INDIVIDUAL NOMINATION “NON-DESTRUCTIVE TESTING METHODS”

GENERAL DESCRIPTION

Perform incoming inspection of parts and components for compliance with the design;
 Perform quality control of weld preparation and assembly of the joints for welding;
 Identify surface defects and shape deviations of finished welded joints;
 Classify surface defects and perform quality assessment in accordance with the requirements of regulatory documents;
 Determine parameters of radiographic control of welded joints;
 Detect internal defects and perform quality assessment by analysing images of welded joints in accordance with regulatory documents.

QUALIFICATION CRITERIA REQUIREMENTS

Prepare and perform non-destructive testing followed by expert opinions, including:

- development of flow charts (instructions) for radiographic inspection;
- checking preparation of the inspected object and means of non-destructive testing; and
- performing visual and dimensional (visual) and radiographic control (analysing images) of the object in question and writing a report.

REQUIREMENTS FOR EDUCATION AND AVAILABILITY OF SPECIAL PERMITS

For currently employed specialists:

The applicant must have a certificate in visual, dimensional (visual), and radiographic inspection with the right to develop process instructions and inspection charts, set up inspection tools, carry out inspection and assessment, and write a report documenting the inspection results.

At least one year of work experience.

Documents:

- certificates confirming the right to perform visual, dimensional (visual), and radiographic control (copy).

For students:

2nd year engineering and technology masters or specialist students (5th year and above) of a higher education institution the educational programme includes the Non-destructive Testing for Quality Control discipline. Or engineering students with an NDT operator qualification.

SKILLS REQUIREMENTS

- read working drawings and use other design and engineering documentation;
- perform incoming inspection of parts and components for compliance with the design;
- use NDT tools;
- perform incoming inspection of how the butt edges are being prepared for welding;
- perform incoming inspection of butt edges assembled for welding;
- detect surface defects and deviations in the shape of welded joints;
- classify surface defects and perform quality assessment in accordance with the applicable regulatory documents;
- select radiographic inspection parameters in accordance with the requirements of the applicable regulatory documents; and
- decode images and assess the quality as required by the applicable regulatory documents.

KNOWLEDGE REQUIREMENTS

- types and grades of pipes, types of piping shut-off valves;

- technical, production, design and detailed design documents for installation of systems pipework;
- symbols welded joints on drawings and diagrams of the equipment to be installed;
- regulatory requirements for determining the radiographic inspection parameters, performing quality assessment based on the visual and dimensional inspection, radiographic inspection, and documenting inspection results at any work stage;
- rules of the internal work regulations;
- rules of sanitary and personal hygiene; and
- regulatory requirements in the area of occupational health and safety, fire safety, environmental protection, and rational use of natural resources, occupational safety requirements at hazardous production facilities where overpressure equipment is used within the scope of the work performed.

JOB RESPONSIBILITY REQUIREMENTS

Incoming inspection of equipment and components for compliance with the design.

Operational inspection of parts being prepared for assembly, mounting and welding. Visual, dimensional (visual), and radiographic inspection (analysing images) of the quality of welded joints followed by issuing flow charts (instructions) and reports.

INDIVIDUAL NOMINATION “HEALTH AND SAFETY” (included in the multi-team nomination)

GENERAL DESCRIPTION

The Health and Safety Executive (HSE) develops and maintains a health and safety management system for the construction project.

QUALIFICATION CRITERIA REQUIREMENTS

The Health and Safety Executive prepares documents which contain complete and objective information on process safety, applies methods of hazards identification and occupational risks assessment, evaluates priority of measures aimed at improving working conditions to ensure their efficiency and safety.

REQUIREMENTS FOR EDUCATION AND AVAILABILITY OF SPECIAL PERMITS

For currently employed specialists:

Higher education in Technosphere Safety or other relevant training areas (specialties) in occupational safety, or higher education and additional vocational education (professional retraining) in occupational safety, or training in ISO 45001 or NEBOSH international standards.

Training in first aid skills and techniques according to international, Red Cross, and EFR standards.

Special permits (working at heights permit, permit to provide first aid, etc.) in accordance with international regulations.

For students:

People of 18 or over who are studying for a degree in Technosphere Safety or Process Safety or Occupational Health and Safety Management.

Training in first aid skills and techniques according to international, Red Cross, and EFR standards. Special permits (working at heights permit (Group 1)) in accordance with international regulations.

SKILLS REQUIREMENTS

- analyse regulations, laws, and regulatory and technical documentation to select relevant requirements, procedures, regulations, and recommendations to be adapted and included into the in-house regulations;
- develop (select) occupational safety training programmes, methodologies, and assessment materials;
- conduct occupational health and safety briefings with respect to the work performed;

- prepare documents with complete and objective information on occupational health and safety;
- apply methods of hazard identification and occupational risk assessment;
- assess the priority of measures to improve working conditions in terms of their effectiveness;
- formulate requirements for personal protective equipment and collective protective equipment with regard to working conditions at the workplace, assess their characteristics, as well as their compliance with regulatory requirements;
- analyse and assess the condition of sanitary and amenity services for employees;
- prepare documents related to the provision of workers with personal protective equipment, protective and cleaning equipment, mandatory medical examinations and checkups;
- plan activities to monitor compliance with health and safety requirements;
- apply methods of control (observation, analysis of documents, interviews) and develop necessary tools for this purpose;
- analyse the reasons of non-compliance with occupational safety and health requirements;
- assess and choose the appropriate measures to eliminate the identified non-compliance;
- identify hazardous and harmful factors potentially affecting employees in the course of their work activities, assess the risk of their impact;
- apply methods for collecting information on the circumstances of industrial accidents and occupational diseases, on working conditions and provision of employees with personal protective equipment, and other information required for the investigation of industrial accidents and occupational diseases;
- analyse information and make conclusions based on an assessment of the circumstances of industrial accidents and occupational diseases; and
- identify and analyse the causes of industrial accidents and occupational diseases and substantiate the necessary measures to prevent any similar accidents.

KNOWLEDGE REQUIREMENTS

- national, intergovernmental, and foreign standards governing occupational health and safety, industrial and fire safety, electrical safety, industrial hygiene, environmental safety;
- basic requirements to technologies, equipment, machinery, and devices to ensure occupational safety;
- technologies, forms, means, and methods of occupational safety briefings, occupational safety training, and occupational safety knowledge assessment;
- methods and procedures for assessing hazards and occupational risks for employees;
- sources and characteristics of harmful and dangerous factors of working environment and working process, their classification, procedure for providing employees with PPE, protective and cleaning equipment;
- procedure for development and assessment of occupational safety measures as part of design and production documentation;
- regulations and technical documents describing requirements for buildings, structures, and premises, their appropriate condition, and ways to maintain, reconstruct, and equip them;
- classes and types of collective protective equipment, general requirements established for collective protective equipment; applications, principles of protection, and basic characteristics of collective protective equipment;
- types, levels, and methods of control over compliance with occupational safety requirements; and
- procedure for investigation of industrial accidents and occupational diseases.

JOB RESPONSIBILITY REQUIREMENTS

- organising collection and processing of information describing the employer's working conditions and occupational safety;
- identifying, analysing, and assessing occupational risks;
- developing plans (programmes) of measures aimed at facilitating and improving safe working conditions and labour protection, while managing occupational risks;
- developing measures aimed at increasing employees' motivation for safe working conditions and their improvement, and involving employees in addressing occupational health and safety related issues;
- conducting occupational health and safety briefings; and
- assessing the applicability of personal protective equipment against harmful and hazardous factors.