



## WORLD CONSTRUCTION CHAMPIONSHIP

### Qualification criteria for applicants in the individual nomination "Pricing and Estimating"

#### COUNTRIES

Russia,  
Kazakhstan,  
Kyrgyzstan,  
Uzbekistan,  
Tajikistan,  
Belarus,  
Armenia,  
Azerbaijan,  
Moldova,  
Turkmenistan.

#### APPLICANTS

Currently employed specialists; independent applicants.

#### JOB REQUIREMENTS

- Estimating engineer;
- Engineer with a degree in economics;
- Cost estimator with a degree in economics;
- Specialist in construction pricing and estimating;
- Specialist in construction pricing and estimating using information modelling technology;
- Leading specialist in construction pricing and estimating;
- Senior specialist in construction pricing and estimating; and
- Head (manager) of the pricing and estimating office (department, division, unit, group).

#### EDUCATION REQUIREMENTS

- Bachelor's, Specialist, Master's degree in construction or economics;

Work areas and specialisations in the following areas:

- Industrial and civil engineering;
- Urban construction and economy;
- Pricing and cost estimating;
- Economics of construction;
- Construction management.

- Additional vocational education — career development programmes, professional retraining programmes;
- Applicants without a related degree must complete additional vocational education — a professional retraining programme in their line of work.

#### WORK EXPERIENCE REQUIREMENTS

At least one year of related work experience in the given profession.

## **JOB RESPONSIBILITY REQUIREMENTS**

- Analysing terms of reference for cost estimate documentation; analysing completeness and sufficiency of the input data required to prepare cost estimate documentation;
- Planning the necessary activities and determining the amount of data needed to perform the work;
- Determining the scope of work and construction resources in accordance with the technical documentation required for the cost estimates;
- Describing a set of works, taking into account their technological sequence;
- Selecting main machines and mechanisms, systems, resources, and equipment based on design documentation;
- Drawing up bill of quantities and punch lists in accordance with the established procedure;
- Communicating with the customer to agree upon and approve the bill of quantities;
- Preparing cost estimate documentation with the view to determine the best shipping methods for goods and materials based on the logistic information provided;
- Selecting individual and aggregated cost estimating standards to provide accurate assessment of the costs;
- Accounting for the work conditions;
- Developing cost estimates regulated by cost estimation methodologies;
- Preparing and drawing up cost statements consisting of cost estimates and an explanatory note in accordance with the established procedure;
- Organising work aimed to prepare, conduct, and deliver the cost estimate valuation results; and
- Monitoring and analysing current prices for resources and equipment, as well as current cost estimating standards.

## **KNOWLEDGE REQUIREMENTS**

- Regulations and laws in the field of urban planning;
- Regulatory, methodological, and administrative documents related to pricing and construction estimating;
- Construction codes and standards, national and industry standards;
- The process of planning and developing design documentation; procedure for prior approval and subsequent approval of the construction project;
- Fundamentals of engineering systems and architectural design of structures and buildings;
- Modern construction structures and materials;
- Construction technology;
- Rules for the conclusion of contract agreements and public contracts for construction work;
- All aspects of construction planning;
- Specifics and procedure of financing construction work, basics of taxation in the construction industry;
- Requirements for labour planning in construction of industrial facilities;
- Construction codes and standards applicable to industrial construction; and
- Procedure for expert review of design and cost estimate documentation and checking the accuracy of cost assessments for industrial facility construction.

## **SKILLS REQUIREMENTS**

- Search for up-to-date legislative, executive, regulatory and methodological documents related to construction cost assessment;
- Analyse construction, reconstruction and overhaul conditions necessary to prepare cost estimates;
- Correctly use the necessary technical, regulatory, and methodological documents that do not regulate construction pricing and cost estimating;
- Make reasonable choices of methods and ways of construction cost assessment;
- Develop any types of estimates in the prescribed manner;
- Draw up and complete the cost estimate documentation in accordance with the established procedure;
- Assess accuracy of estimated cost of construction, overhaul, and reconstruction of industrial facilities;
- Analyse technical documentation and its use in the preparation of input data required for cost assessment;

- Calculate the estimated cost of all types of resources and equipment in accordance with the established procedure;
- Use modern organisational and communication technology via means of electronic transmission, protection, and storage of information;
- Work with changes in design documentation to update cost estimates;
- Proficiency in up-to-date office software;
- Proficiency in up-to-date specialised estimating programs; and
- User of specialised software for designers (CAD/BIM).