



WORLD CONSTRUCTION CHAMPIONSHIP

Qualification criteria for applicants in the team nomination "Building Information Modelling and Design"

APPLICANTS

Currently employed specialists; students.

COUNTRIES

Russia,
India,
Kazakhstan,
Kyrgyzstan,
Pakistan,
Uzbekistan,
Tajikistan,
Belarus,
Armenia,
Azerbaijan,
Moldova,
Turkmenistan,
China,
South Africa,
Brazil,
Israel,
UAE,
Hungary,
Serbia,
Iran,
Qatar,
Kuwait,
Laos,
Nigeria.

TEAM MEMBERS

5 specialists.

Recommended list of team members:

- Architect,
- Design engineer,
- Production engineer,
- Cost estimating engineer,
- BIM-manager.

EDUCATION

Related higher education — the Specialist, Bachelor's or Master's degrees; at least one year of related work experience.

Specialisations:

- construction work planning;
- design of buildings and structures;
- design of engineering systems for industrial and civil buildings;

and

Higher education (other than the related one) — Bachelor's, Specialist, Master's degree and additional vocational education or professional retraining programmes in construction planning and/or design of civil buildings and structures; at least one year of related work experience.

Additional vocational education — career development programmes in information modelling technology.

SKILLS REQUIREMENTS

- Use national and international regulatory and technical documentation in the field of design;
- Calculate the technical and functional systems of the design object;
- Plan construction works;
- Analyse similar equipment and materials to implement technical solutions;
- Develop information models of a capital construction project in various CAD systems; and
- Have experience in creating building information models in one of the CAD systems.

KNOWLEDGE REQUIREMENTS

- National and international laws and regulations in design and construction;
- National and international regulatory and technical documentation in the field of design and construction;
- Design of engineering systems for buildings and structures; and
- How to use specialised building information modelling software for capital construction projects.

WORK EXPERIENCE REQUIREMENTS

- Obtaining and analysing background data;
- Comparing actual data with information from the information model and detailed design documentation;
- Performing interdisciplinary analysis of design solutions;
- Setting up software tools for working with information models; and
- Work with consolidated building information models for capital construction projects in any of the environments.