

## PP23. Управление проектом

## PP23. Project Management

*Read about how project management skills are used in different careers*

### PROJECT MANAGEMENT IN ACTION

Project management skills can be used in most careers as well as in our daily life. Project managers can be seen in many industry sectors including agriculture and natural resources; arts, media, and entertainment; energy and utilities; engineering and design; fashion and interiors; finance and business. Below we explore various careers and some of the ways in which project management knowledge can be implemented.

#### **Business Owners**

Business owners definitely need to have some project management skills. With all successful businesses, the product or service being delivered to the customer meets their needs in many ways. The product or service is of the quality desired, the costs are aligned with what the consumer expected, and the timeline of the product or service meets the deadline for the buyer of that item.

The pillars of project management are delivering a product/service within schedule, cost, scope, and quality requirements. Business owners need planning, organizing, and scoping skills and the ability to analyze, communicate, budget, staff, equip, implement, and deliver.

#### **Engineers**

Engineers apply the principles of science and mathematics to develop economical solutions to technical problems. As a project life cycle develops from a kickoff meeting to the implementation and delivery of a product or service, engineers link scientific discoveries to commercial applications that meet societal and consumer needs.

Engineers use many project management skills, especially when they must specify functional requirements. They demonstrate attention to quality as they evaluate a design's overall effectiveness, cost, reliability, and safety similar to the project manager reviewing the criteria for the customer's acceptance of delivery of the product or service.

#### **Construction Managers**

Construction managers plan, direct, coordinate, and budget a wide variety of residential, commercial, and industrial construction projects including homes, stores, offices, roads, bridges, wastewater treatment plants, schools, and hospitals. Strong scheduling skills are essential for this role. Communication skills are often used in coordinating design and construction processes, teams executing the work, and governance of special trades (carpentry, plumbing, electrical wiring) as well as government representatives for the permit processes.

A construction manager may be called a project manager or project engineer. The construction manager ensures that the project is completed on time and within budget while meeting quality specifications and codes and maintaining a safe work environment.

*Study the following words and phrases:*

project	проект
management skills	управленческие навыки, умение руководить
communication skills	коммуникативные навыки
scheduling skills	навыки составления графиков
project budget	бюджет проекта
consumer	пользователь, потребитель
design	разрабатывать, проектировать
coordinate	координировать
develop	развивать
execute	исполнять
implement	применять, внедрять
analyze	анализировать

complete	завершить
evaluate	оценить
economical solution	экономичное решение
quality specification	требование к качеству

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*Every project life cycle contains five steps:*

Initiation	начало, инициирование
Planning	планирование
Implementation	реализация, внедрение
Monitoring/Control	наблюдение, контроль
Closure	завершение

*Read about a project a US company carried out in Argentina. Paying attention to the use of different phase names.*

A US construction company won a contract to design and build the first copper mine in northern Argentina. During the **initiation** phase of the project, the project manager focused on defining and finding a project leadership team with the knowledge, skills, and experience to manage a large complex project in a remote area of the globe.

During the **planning** phase, the project team developed an integrated project schedule that coordinated the activities of the design, procurement, and construction teams. The project controls team also developed a detailed budget that enabled the project team to track project expenditures against the expected expenses.

During the **implementation** phase, the project team accomplished the work defined in the plan and made adjustments when the project factors changed. Equipment and materials were delivered to the work site, labour was hired and trained, a construction site was built, and all the construction activities, from the arrival of the first dozer to the installation of the final light switch, were accomplished.

The **closure** phase included turning over the newly constructed plant to the operations team of the client. A list of a few remaining construction items was developed and those items completed.