

# Project Management in Construction



## Characterstics of Effective Project Manager

**Common Vision:** One of the hallmarks of a successful project manager is the ability to establish a clear vision for the project's future (Ahmed, 2019). Leaders and project managers inspire, offer purpose, motivate change, and allow workers to feel like their efforts matter.

**Effective Communicator:** Communication skills at all organisational levels are another hallmark of an excellent project manager. A competent project manager has all these skills because project leadership requires clear communication about responsibilities, objectives, performance, expectations, and feedback.

**Integrity:** A project manager's actions, not words, determine a team's mode of operation. Management requires ethics and devotion. Integrity—values, honesty, and teamwork—is essential to leadership and project management. Good project managers set high ethical standards for themselves and reward others who follow them.

**Leadership Skills:** Strong leadership abilities are essential for a successful career as a project manager. Managers of such projects also have to deal with teams composed of people from many walks of life. Thus, they must motivate employees and adjust group performance to meet corporate goals using diverse leadership styles.

**Decision-making:** Having solid decision-making abilities is vital in all facets of life, but especially in the workplace. Project managers have a lot of discretion and influence over the course of their projects. We all know how easy it is for one bad choice to derail a whole endeavour. A project manager's ability to think critically and respond swiftly is so essential.

**Delegation of Duties:** One needs to be competent at delegating tasks to others. A good leader can assess their team members' abilities and play to their strengths when delegating work. Being a pioneer doesn't need you to give thought to every last aspect (Reja et al., 2019). It is important to demonstrate your faith in your team members by giving them responsibility for certain projects.

**Well-organized:** The ability to stay organised under pressure is an important skill for every worker to have. Being structured aids in seeing the larger picture and setting priorities for one's own work. If you want to present your findings effectively, you need to be able to gather all the relevant data and present a clear picture of the final product.

**Proficiency:** A leader or manager's wisdom and greatness may be measured by proficiency and complete knowledge. Maintaining a position of leadership over your initiatives requires an in-depth understanding of your field. Money and legal aspects of your duties can also be learned. Members of your team should have confidence in your abilities.

**Problem Solver:** Successful project managers know how to solve problems with the help of a team of specialists or consultants (Antipina et al., 2021). No one will assume you've thought of every possible difficulty, but you should be able to pool the expertise of your team and the people who have a stake in the project's success to come up with a solution.

**Negotiating Skills:** Good bargaining abilities are essential for every project manager (Nawaz et al., 2019). And this skill set is crucial for settling disputes and keeping the peace on a team.

**Project Life Cycle Management:** A project goes through several different stages during its lifetime. Project management currently includes conceptual stages and project portfolio management, which links strategic growth management of the firm to project management (Albahbah et al., 2021). Project managers must integrate strategic growth management with project management.

**Project Success:** Outcomes are the yardstick by which projects are evaluated for their performance (Ibrahim et al., 2019). A project manager should be able to concentrate the team on benefits delivery rather than just finishing the project on time and on budget.

## Tools Used by Project Managers

**Kissflow Project**  
The greatest free project management software is this all-in-one strong solution. Kissflow Project is perfect for functional project managers and beginners (Albahbah et al., 2021). This all-in-one solution is great for any business, since it has a slick and intuitive graphical user interface.

**Trello**  
Trello is an industry-leading web platform for project management and collaboration. It helps you set projects and keep organised with the use of boards, lists, and cards. Cards allow users to collaborate, exchange files, and discuss.

**Asana**  
With its emphasis on teamwork and adaptability, Asana is a cloud-based project management service. There are a variety of task views, and it's easy to add your own data and make your own forms (Nawaz et al., 2019). Options to create one's own approval processes and regulations are also available.

**Zoho Projects**  
Zoho Projects enables organisations communicate, manage bugs, and run easy reports. Gantt charts and multi-project billing are included in the online project management application (Ibrahim et al., 2019). In addition to its other strengths, Zoho Projects' communication tools are excellent.

**Wrike**  
Wrike is a web-based project management application that makes it easier to organise projects, keep tabs on progress, keep an eye on deadlines, and coordinate with a wide variety of people (Ahmed, 2019). It's a robust suite for managing projects, and it's easy to integrate with other systems.

**Clarizen**  
Clarizen is a top-rated cloud-based project management solution designed for enterprises of all sizes. Only a web-based interface is available, therefore its utility for mobile teams may be diminished. It lacks a to-do list and time monitoring, but users adore the reports and resource tracking.



## Gantt Chart for a Typical House

| Task                   | Feb | Mar | Apr | May | Jul | Jul | Aug | Sept | Oct | Nov | Dec |
|------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| Pre-Construction       |     |     |     |     |     |     |     |      |     |     |     |
| Design and Planning    |     |     |     |     |     |     |     |      |     |     |     |
| Sample Approval        |     |     |     |     |     |     |     |      |     |     |     |
| Contract Execution     |     |     |     |     |     |     |     |      |     |     |     |
| Construction           |     |     |     |     |     |     |     |      |     |     |     |
| Mobilisation           |     |     |     |     |     |     |     |      |     |     |     |
| Demo                   |     |     |     |     |     |     |     |      |     |     |     |
| Rough Framing          |     |     |     |     |     |     |     |      |     |     |     |
| Structural Repair      |     |     |     |     |     |     |     |      |     |     |     |
| Inspection: Framing    |     |     |     |     |     |     |     |      |     |     |     |
| Dry Wall               |     |     |     |     |     |     |     |      |     |     |     |
| Painting               |     |     |     |     |     |     |     |      |     |     |     |
| Trim                   |     |     |     |     |     |     |     |      |     |     |     |
| Finishes/ Fixtures     |     |     |     |     |     |     |     |      |     |     |     |
| Substantial Completion |     |     |     |     |     |     |     |      |     |     |     |
| Closeout               |     |     |     |     |     |     |     |      |     |     |     |
| Punch Lists            |     |     |     |     |     |     |     |      |     |     |     |
| Final Inspection       |     |     |     |     |     |     |     |      |     |     |     |
| Closeout Documents     |     |     |     |     |     |     |     |      |     |     |     |

## Characteristics of Stakeholders in Construction Industry

### Quantity Surveyors

**Communicative:** Modern QSs must be able to express themselves concisely. Communication is essential for project delivery, where collaboration is key.

**Critical Thinking:** Respected QSs are especially adept at turning critical analysis into timely decisions under pressure. Revision logs, undo button, comparison reports, and quantity sources enable quick and reliable responses to approaching offsets.

**Observant:** QSs must be detail-oriented. Detail-oriented work reduces mistakes. Detail-oriented project management is crucial (Nawaz et al., 2019). This directly impacts customer experience and your corporate image.

**Working Under Pressure:** QSs must fulfil deadlines daily. Staying calm lets you work efficiently and meet business requirements. Being composed means being able to efficiently prioritise and assess projects, demonstrate dedication at every level of your job, and persevere.

**Organised:** Quantity Surveyors must maintain all numbers, data, and paperwork to provide timely recommendations. QSs must be organised to enhance productivity. Quantity Surveyors now make more project decisions, therefore being organised is essential.

**Humility:** Humility helps self-development by turning shortcomings into strengths. New information and technology are essential in a changing economy. One method to cope with this is to stop focusing so much on one's own thoughts.

**Team-Orientated:** QSs must develop teamwork and numeracy abilities. Teamwork, or the synergy effect, boosts performance in any profession.

### Architects

**Negotiability:** Architects must interact with clients, interior designers, engineers, and personnel. Architects must also explain their designs and persuade others.

**Avid Learners:** You must continue your study to remain an architect. Education, experience, and a test are normally required to get licenced in your desired state.

**Knowledge and Awareness:** Architecture goes beyond sketching and design. Architects are well-versed in politics and public speaking (Bröchner et al., 2021). Architects must also understand construction, sustainable building, real estate, marketing, and business and use their expertise everyday.

**Dedicated:** Architects must commit fully. The architect must assure each project's safety, which requires work.

### Civil Engineers

**Skill Development:** Science provides the cornerstone for engineering careers, especially civil engineering. Physics, biology, chemistry, and computer science are included.

**Calculations:** Civil engineers use mathematics daily (Zhao et al., 2020). Civil engineers must master algebra, calculus, trigonometry, and geometry.

**Writing:** Every civil engineer must write precise and succinct reports and communications. Civil engineers collaborate with architects, urban planners, regional planners, technologists, and craftspeople.

**Oral Communication:** This requires listening to clients, officials, team members, and other professional employees to understand their needs (Albahbah et al., 2021). Civil engineers must communicate difficult technical knowledge to coworkers and project stakeholders.

**Leadership:** Civil engineers are mostly responsible for project results. Managers must lead planners, technicians, technologists, surveyors, contractors, and those who directly contribute to projects.

**Skills in Organization:** Civil engineers monitor and assess job site progress. This involves ensuring personnel follow design papers, project plans, and other requirements.

**Problem-Solving:** Engineers face several variables throughout project design, development, and completion (Antipina et al., 2021). Engineers must use their abilities, knowledge, and experience to solve problems safely and affordably while keeping a project on pace.

**Decision-Making:** As a project leader and manager, a civil engineer must weigh available facts, opposing constituent goals, professional ethics, financial duties, and safety issues (Zhao et al., 2020). They must trust themselves, their teams, and the facts to make good judgments.

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