

Construction Engineer Responsibilities:

- Civil engineering – construction engineers using technical engineering skills based in math and physics to predict future problems and find solutions for them
- Project management – construction engineers determine the critical path necessary for a project to get done, then design plans to make it happen. People at all levels look to them for guidance
- Construction management – engineers perform various construction management duties, such as budget management, scheduling, material procurement, and labour planning
- Leadership – interpersonal skills are essential for construction engineers to lead a large crew and successfully influence the outcomes of construction projects
- Creativity – construction engineers need to use creativity to innovate and improve solutions
- Planning skills – planning and design are essential skills for construction engineers to execute their responsibilities well
- Communication skills – good verbal and written communication skills are important for construction engineers because they constantly submit reports and share vital information in a clear, concise manner
- Overseeing all the different engineering processes in a construction project is the primary responsibility of a construction engineer
- Construction engineers bring specific knowledge to construction projects, such as cost control, cost accounting, and management of project schedules. They constantly refer to schedules to make sure quality work is done on time. When needed, they facilitate discussions and create solutions between construction contractors and construction managers. It is their responsibility to eliminate disagreements in the field and misunderstandings about expected work outcomes.
- Engineers carefully inspect all drawings and designs before they are implemented. They plan personnel flows and decide how other contractors and subcontractors will support ongoing operations.
- Keeping up-to-date logs, estimates, change orders, vendor forms, and surveys with different software is a key role of construction engineers. With documentation, they identify and spot technical problems in the construction process. If necessary, they secure more materials to keep construction going.
- Manage to planning, execution and design stages of construction projects.
- Preparing work schedules in collaboration with the project manager.
- Liaising between contractors, subcontractors, vendors, and suppliers.
- Performing regular tests on materials and procedures to ensure compliance with industry regulations.
- Ensuring that the construction project is completed on time and within budget.
- Documenting processes and keeping detailed construction logs.
- Presenting construction project progress updates to senior managers.
- Availability to visit the construction site outside of business hours, when relevant.
- Manage, design, develop, create and maintain small-scale through to large-scale construction projects in a safe, timely and sustainable manner

- Conduct on site investigations and analyze data (maps, reports, tests, drawings and other)
- Carry out technical and feasibility studies and draw up blueprints that satisfy technical specifications
- Assess potential risks, materials and costs
- Provide advice and resolve creatively any emerging problems/deficiencies
- Handle over the resulting structures and services for use
- Monitor progress and compile reports in project status
- Manage budget and purchase equipment/materials
- Comply with guidelines and regulations including permits, safety etc and deliver technical files and other technical documentation as required

Construction Engineer Requirements:

- Bachelor's degree or diploma in civil engineering, civil engineering technology, or similar.
- State-approved license.
- At least 4 years of proven working experience in civil engineering.
- Advance proficiency in construction management software, such as Build Smart and Smart sheet etc.
- Excellent knowledge of design and visualizations software such as AutoCAD, Computer-aided drafting and design 3D modeling software
- or similar
- Proficiency in site layout, grading, utility design, erosion control, regulatory approvals etc
- Project management and supervision skills
- Strong communication and interpersonal skills
- License of professional engineer
- Geographic information systems (GIS)
- Surveying equipment

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