



WILL AI REPLACE ME?

Construction Supervisor

Construction and Public Works

?? Although eight criteria, including the complexity and creativity of primary tasks and associated risk levels, indicate this job has significant automation potential, its physical dimension acts as a substantial hurdle to further automation

The role of a Construction Manager is complex and multifaceted. It requires not only in-depth knowledge of construction and building techniques but also the ability to coordinate a variety of professionals, anticipate issues, and make quick decisions on-site.

While AI can help optimize planning and monitoring, it cannot replace the human capacity to negotiate, resolve conflicts, or make tactical decisions based on lived experience. Moreover, interacting with various teams and the need to adapt plans in real-time based on unforeseen circumstances make this profession challenging to fully automate. The human and physical dimensions remain central in construction site management.

Automation degree: 6,67%

Job Still Minimally Affected by AI Due to Its Physical Dimension



6,67%

Main tasks

This section reviews the 3 main tasks associated with the job studied and assesses the potential level of automation induced by AI (« **AI Automation Impact** »). The modeling uses 8 criteria detailed on the « **Methodology** » page.

Tasks	AI Automation Impact
Plan, organize, and supervise various stages of a construction site.	Low
Ensure adherence to timelines, budget, and safety standards.	Moderate
Collaborate with various trades to ensure work coordination.	Very Low

Impact on skills

At-risk Skills ↓	
Monitoring the Management of Storage Areas	The traditional monitoring of storage areas is evolving under the influence of automation, the Internet of Things (IoT), and smart logistics solutions.
Assigning Staff to Workstations	Automation of tasks, project management software, and Artificial Intelligence-based solutions can assist or even take over human resource planning, making it less common for a site supervisor to manually assign staff. Advanced systems could eventually optimize assignments based on skills, availability, and other factors without direct human intervention.
Future-proof Skills ↑	
Coordinating Various Trades	This skill encompasses relational nuances, communication, and empathy which are essential when managing diverse teams on a construction site. It also involves an ability to navigate through complex situations that cannot be easily automated.
Rules and Safety Instructions	Safety is paramount on a construction site. Even with the introduction of new technologies or construction methods, knowledge and adherence to safety rules will always remain relevant.

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