



WILL AI REPLACE ME?

Building Maintenance Technician

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 Building Maintenance Agent holds a vital role in the maintenance and repair of infrastructure. Although certain AI-assisted monitoring systems can aid in anomaly detection, human intervention is indispensable for physically inspecting locations and accurately assessing the precise nature of problems.

Furthermore, the repair of defects necessitates manual dexterity and contextual understanding that surpass the current capabilities of automation. In the case of preventive maintenance, it benefits from data-driven recommendations, but effective implementation remains a task for humans. The physical and adaptable characteristics of this profession render it challenging to automate at this juncture.

Automation degree: 0%

Job not influenced by AI Due to Its Predominantly Physical Nature

0%

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 |
|---|----------------------|
| Regularly inspect installations | Significant |
| Repair defects and malfunctions | High |
| Perform preventive maintenance on systems | Significant |

Impact on skills

| At-risk Skills ↓ | |
|--|--|
| Diagnose faults in systems such as lighting, heating, and plumbing | As technology advances, many systems integrate automatic diagnostics that can identify and even rectify certain issues without human intervention. |
| Inspect electrical installations | With the expansion of self-monitoring technologies and systems, manual checks might become less frequent. Sensors and smart devices can be used to monitor in real-time and signal any malfunction. |
| Future-proof Skills ↑ | |
| Perform equipment maintenance | While some tasks can be automated (like lawn mowing with robot mowers), general outdoor maintenance requires an aesthetic appreciation, knowledge of local plants, and adaptation to weather conditions. |
| Maintain an outdoor area | Facility maintenance encompasses many tasks that go beyond mere cleanliness. This can include space layout, understanding the needs of occupants, and adapting to specific events. Its physical dimension limits its automation by AI. |

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