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Scenario

The Site Manager and Safety Officer recognize increasing incidents of safety breaches, including workers not adhering to PPE guidelines in high-risk zones. They notice that tracking workers' real-time location and compliance is difficult, leading to concerns about potential accidents and non-compliance with regulations.

Expectations

- **Site Manager/Safety Officer:** Expecting a solution to improve monitoring and enhance compliance in safety-critical areas. They hope to reduce accidents and increase productivity through better oversight.
- **Workers:** Generally unaware of the specific challenges, but they expect that the introduction of safety protocols will be aimed at protecting them and improving worksite conditions.

Awareness

Research & Setup

Onboarding

Operational

Evaluation

Actions

- Site managers and safety officers identify the challenges in monitoring worker locations in real-time.
- Recognize unsafe behavior, such as PPE non-compliance, in high-risk zones.

- Meet with stakeholders (managers, safety officers, developers) to discuss and define needs.
- Select the necessary hardware (smartphones, wearables, GPS trackers) and define safety zones (high-risk, restricted, general areas).
- Install beacons, QR codes, or geofencing infrastructure.

- Workers download and register on the app.
- Admins assign roles and permissions, ensuring supervisors have full access to dashboards.
- Provide training for workers and supervisors on using QR codes, GPS tracking, and responding to safety alerts.

- Workers check in/out at designated site zones.
- PPE scanning is required at entry points to high-risk zones.
- Supervisors monitor real-time dashboards for compliance and labor movement.

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Pains

- Difficulty in tracking workers effectively in real-time due to limited resources or technology.
- Increased risk of accidents due to unmonitored PPE usage in hazardous areas.

- High upfront costs for hardware and software setup.
- Potential difficulty in integrating the new system with existing infrastructure like attendance or safety management systems.
- Time-consuming process to ensure all equipment and software are fully functional.

- Resistance from workers who are unfamiliar with or resistant to new technologies.
- Training may not be comprehensive or consistent across all workers, leading to errors in system usage.
- Initial setup may lead to confusion and delays, especially if workers are not tech-savvy.

- Reliance on constant connectivity, which can be a challenge in remote or low-connectivity areas.
- False alarms or incomplete data (e.g., GPS inaccuracies) may cause confusion or reduce trust in the system.
- Worker resistance to constant monitoring and privacy concerns may arise.

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Feelings

Frustration,  
Concern,  
Urgency

Optimistic,  
Cautious,  
Overwhelmed

Hopeful,  
Anxious,  
Cautious

Alert,  
Responsible,  
Frustrated

Reflective,  
Relieved,  
Proud

Opportunities

- Highlight the importance of real-time tracking and safety compliance, providing a chance to implement solutions.
- Develop a proactive safety culture by addressing the root causes of non-compliance.

- Collaboration with stakeholders can foster better alignment of goals and expectations.
- Selecting the right technology can enhance site efficiency, safety, and compliance.
- Early investment in robust infrastructure can prevent costly rework later in the project.

- Onboarding is a great opportunity to build familiarity with new systems and engage workers early.
- Proper training can increase worker buy-in and system adoption.
- Clear role definitions improve accountability and make sure the right people are in charge of safety.

- Real-time monitoring can significantly enhance compliance and quickly address safety risks.
- Automated reminders for PPE compliance can reduce the chances of human error.
- Continuous feedback from dashboards enables swift action and better management of safety practices.

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