

Use Case related to Detect Worker Emergency	
Name	<b>Detect worker entering hazardous area.</b> can i motivate that with some chemistry shop-floor maybe? what could be hazardous areas? Also could say dangerous area.
Description	The system tracks shop-floor workers and notifies them if they enter a restricted / dangerous area.
Pre-Conditions	(1) The shop floor worker is equipped with location tracking devices. OR the shop floor is equipped with i.e., LIDAR to track workers on the shop floor. (2) The worker enters a restricted area.
Success End Condition	The worker is notified of entering a restricted area. If they do not leave within a specified time period, additional personell are notified to 'rescue' the worker.
Error Situations	The location tracking is defective.
Failure End Condition	The worker enters a restricted area but is not notified. Since no restricted access was detected, no additional personell will be notified.
Primary Actor	Shop-Floor Worker
Additional Actors	Location Tracking Devices, Emergency Personell, Other Shop Floor-Workers, Unions, Privacy-Responsibles
Trigger	An Administrator starts the tracking software. / The software continiously tracks workers in an area.
Monitoring... Property - Component - Device	Shop Floor Worker - Tracking of Position - IoT Device / LIDAR Dangerous Areas - Geofencing / robot position - Predifined Areas using, e.g., IoT devices / Dynamic Robot Movemevent (gather robot position)

Main Success Scenario	
1	A workers enters an area within the shop-floor with monitoring enabled.
2	The tracking device / LIDAR sensors activate and continiously track the worker.
3	The worker enters a restricted (i.e., dangerous) area
4	The worker gets a notification through a device (smartwatch, audio, phone, etc.) that they entered a dangrous area and must leave within [allowed_time] amount of minutes
5	When the amount of time the worker is within the restricted area goes above [allowed_time], the system notifies emergency personell to take a look at the situation.
6	The emergency personell arrives at the scene and 'rescues' the worker.