An effective site safety system can help enhance worker safety, improve processes and boost productivity by tracking the location of workers and equipment. CSC’s Safe.Worker solution can:

• Identify and monitor exclusion zones and muster points
• Enable workers to signal duress
• Locate lone workers
• Send audible alarms and text messages
• Track high value equipment
• Send text messages to alert for hire equipment return dates
• Provide process insights
• Improve ‘wrench time’

THE BIG PICTURE
Your mine has hundreds of workers and thousands of pieces of equipment moving around at any given time. Knowing the location of a high value tool can save your organisation money and knowing the location of a worker could save their life.

CSC’s Safe.Worker solution gives you a view of the ‘big picture’:

• Where are your workers? Are they safe? Can you help them be more productive?
• Where are your tools located? Are they due back to a hire company? Can they be used more efficiently?

CSC has the mining industry experience to help you adopt a new way of working, and the know-how to implement the latest technologies.

SAFETY
With the Safe.Worker solution, a lone worker is never alone. Each worker wears a badge that the system can use to pin-point their location anywhere on the mine site – indoors, outdoors or underground. The badge is integrated with the worker’s site access card. One badge for the worker to carry; one badge for the company to administer.

In an emergency a worker can activate the duress alarm integrated in their badge.

The badge can also detect if the worker takes a fall, or – with onboard integrated sensors – detect exposure to hazardous gas. When the alarm is activated, the system raises an alarm in the control room and pin-points the worker’s location.

Exclusion zones can be identified in the system so that workers are alerted if they are inadvertently entering a blast area and can take appropriate action. The incident can also be logged for investigation.

In an emergency, your field response team can access the system via a mobile device to determine the location of anyone that has not presented at the muster point.

We understand safety is a top priority for a mine and CSC’s Safe.Worker solution provides improved safety for your workers as they move around your site.

PRODUCTIVITY
An effective site safety system can also make a worker’s job easier.

Your workers need to spend time on activities each day that support their work: getting tools, travelling to and from work sites, obtaining permits and work instructions. By showing you where people are spending their time, the system can help you identify process bottlenecks.

For example, are your workers spending a lot of time at the tool store? Do you need more staff there? Are there enough tools to go around? By identifying the bottleneck, you can investigate the problem, find a solution and streamline the process to increase labour-force productivity.

Improving ‘wrench time’ is the goal here – CSC’s Safe.Worker solution enables your workers to get through the sup-
**THE SOLUTION:**
- RFID & GPS technologies for tracking tools
- Integrated database system and workflows for check-in, check-outs, alerts and stock-takes
- Simple, user-friendly displays provide immediate feedback to workers

**THE OUTCOMES:**
- Improve wrench time and mean time to repair (MTTR)
- Reduce administrative costs, tool expenses and, most importantly, production delays
- Drive accountability and change behaviours

Adoption will depend on honest engagement and clear communication. Workers must be confident that the system will not be intrusive, and that its goal is to protect them and to make their jobs easier.

**EFFICIENCY**
On a large site, finding a piece of equipment – even a high value one – can be like finding a needle in a haystack.

Hire tools or pieces of equipment can often miss their return date and incur costs well beyond their initial intended use if not monitored.

By placing a global positioning system (GPS) asset-tag on a piece of equipment before it leaves its location in the tool store, or the field, the Safe.Worker solution allows you to identify where the equipment is and who is using it.

**BEHAVIOUR CHANGE**
Every minute of production is critical. Not being able to locate critical tools when needed means longer maintenance downtime and lost production.

However, keeping track of shared equipment in a central, unmanned tool store is difficult.

The most important aspect of managing equipment is driving the correct behaviours. Every worker is responsible for the tools issued to them. We use radio frequency identification (RFID) tags to automatically log the issue and return of tools from the tool store, and associate the tools to a worker.

By implementing the Safe.Worker solution the workers now know that the tools are tracked and this encourages them to return the tools at the end of the shift. As a result you are no longer caught short without the critical tool when it’s needed.

The system can work just as effectively in a fully automated and un-attended mode of operation without a storeman.

**TECHNOLOGY**
CSC has its own enterprise visibility platform – OmniLocation. This platform consolidates the location data from badges and asset-tags, presenting it on maps, 3D imagery and other tools you can use to keep track of your workers and equipment.

Once the system is implemented, we offer an ongoing managed service to monitor and maintain the system into the future.

You can focus on your core business, confident that we are providing you with the information you need to enhance worker safety, improve your processes and boost productivity.

**GET IN TOUCH**
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