

Driving Shift Excellence



When returning home at the end of the day, do you remember **100% of what you worked on** that day?

Do your operators remember **100% of many varied tasks** during the shift handover process?

Although risk avoidance is a priority in plants across the world, industrial accidents over the last 35 years have continued to be caused by human procedures. **Drive Shift Excellence to ensure your workers can return home safely every day.**

Poor human operations procedures in industrial sites can have devastating consequences on workers, enterprises and the surrounding communities. The activities performed before, during and after shift handover are some of the most crucial in the enablement of safe operations. In fact, research by American Fuel & Petrochemical Manufacturers (AFPM) highlights that more than **40%** of plant incidents occur during start-up, shutdown and shift handover.

Although most industrial plants have successfully implemented data historians to collect real-time information, the accompanying human procedures are often still managed and recorded with inadequate,

time-consuming methods. These range from traditional paper forms and whiteboards to electronic tools like spreadsheets, word processor documents, scattered databases and disconnected applications, and even to mere verbal discussions.

These methods have been linked to catastrophic accidents across industries and decades. For example, a U.S. Chemical Safety and Hazard Investigation Board report of the 2005 BP Texas City Refinery explosion found that supervisors and operators miscommunicated critical start-up information during the shift handover. The accident caused the death of **15** people, injured another **180** and resulted in losses exceeding **\$1.5 billion (USD)**.

A Hexagon study of **101 industrial accidents where poor human procedures was a contributing factor** discovered 405 fatalities, 2,163 injuries and over \$150 billion (USD) of financial losses associated to these tragic incidents.



Shift Excellence is the digital answer to the challenges of poor, obsolete operations procedures. This Hexagon solution enables efficient, consistent, detailed information across shift handover activities, reduces industrial risk and plays a key role in the digital transformation roadmap towards safe operations.

Shift Excellence integrates on a **single, fully scalable and easily configurable platform** a range of shift handover information and processes, including:

- **Operations logbook entries**
- **Real-time events and trends**
- **Work instructions**
- **Standing orders**

A key aspect of Shift Excellence is that it doesn't aim to reduce personnel. Rather, it aims to:



Empower human judgement during safety-critical activities



Maximize awareness of plant events



Increase compliance with regulations



Improve communication between field, control room and other departments



Shift Excellence helps ensure that personnel have all the information they need when they need it – **without relying on obsolete tools, disconnected data or human memory**. All relevant shift handover information is digitally consolidated in a centralized report, automating a tedious process that previously took hours.

Shift Excellence brings continuity throughout shift changes and breaks down traditional departmental silos to operate the plant **as a single team** with high visibility and accountability and productivity. This can lead to a remarkable reduction in operating expenditure (OPEX).

Thanks to Shift Excellence, incoming workers will have the confidence that they are aware of all potential hazards and events in the plant. At the same time, outgoing workers will have comfort knowing they have completed and communicated shift activities effectively. Not only this brings an upturn in employee satisfaction; it contributes to decreasing risk and preventing accidents, too.

Digitally transform plant activities, enable well-informed decisions and reduce the operational risk of human procedures with Shift Excellence!

About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.9bn EUR. Learn more at [hexagon.com](https://www.hexagon.com) and follow us @HexagonAB.