



Showa Denko Oita Complex

Key Facts

Company: Showa Denko

Website: www.sdk.co.jp

Industry: Petrochemicals

Products Used:

- j5 Operations Management Solutions

The Showa Denko Oita Complex is the main manufacturing base of their petrochemicals division and is equipped with a naphtha cracker.

The Showa Denko Oita Complex has a well-balanced demand structure and the basic materials manufactured are supplied to the producers of plastics, synthetic rubber and styrene monomers.

These customer plants are operated by other companies within the premises, as well as the acetyl derivatives plant operated by Showa Denko itself.

The Problem

The degradation of experience and knowledge due to rapid generation change was attracting the following problems:

- Operations management methods and levels were different in each department, and best practices were not shared.
- It took time to prepare and transcribe paper-based orders; activating the creation of these orders was difficult.
- Leakage / missing data has occurred in the Shift Handover and Work Instructions processes, which is a concern for stable operations.

How j5 Operations Management Solutions Solved the Problem

The following solutions were implemented at Showa Denko Oita Complex since 2017:

- **j5 Operations Logbook**
- **j5 Shift Handover**
- **j5 Work Instructions**
- **j5 Standing Orders**
- **j5 IndustraForm® Templates**

j5 Shift Handover produces reports for operators, boardmen and supervisors with relevant data, events and instructions for each unit and area of the refinery. It ensures a consistent, visible and accountable process.

j5 Work Instructions enables planners to schedule ad hoc and recurring tasks for operations team members. Tasks are marked off as complete and summarised in the j5 Shift Handover reports.

j5 Standing Orders allows for the controlled dissemination of important communications within the plant.



We were fascinated by the ease of use of the j5 Operations Logbook. We introduced j5 Operations Management Solutions to maintain and improve the on-site capabilities and to upgrade the work processes. We think that this is a communications tool that can be utilized not only for the operations management at a production site but also for field management in general.”

Production Engineering
Showa Denko Oita Complex

Benefits of j5 Operations Management Solutions

A common Operations Management System has been established for each department, enabling standardization across the Showa Denko Oita Complex.

Improvement in work efficiency was realized, and a significant reduction in business hours was achieved.

By utilizing electronic information, Showa Denko Oita Complex has succeeded in enhancing operator skills and supporting technology inheritance.

Reduction of leakage / missing data by using j5 Shift Handover and j5 Work Instructions has enabled a more robust stable operation.

Finally, j5 Operations Management Solutions provide an advanced business operations and technology transfer to young staff.

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.