

The j5 Operations Management System is an out-the-box application bundle comprising the j5 Operations Logbook, j5 Shift Handover, j5 Work Instructions and j5 Standing Orders. It also includes the j5 IndustraForm® Designer and j5 IndustraForm Templates. Providing a tried and tested operations management solution with spreadsheet-like configuration.



### j5 Shift Handover

Achieve Consistent,  
Safe and Fully-informed  
Shift Handovers



### j5 Operations Logbook

Record, Track and  
Manage Industrial  
Events



### j5 Work Instructions

Productively Manage  
the Continuous Stream  
of Work Instructions



### j5 Standing Orders

Communicate,  
Distribute and Track  
Instructions



### j5 IndustraForm Designer

Transform Paper,  
Forms and  
Spreadsheets into  
Enterprise Level  
Applications

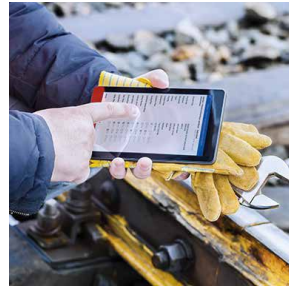


### j5 IndustraForm Templates

Consolidate Paper and  
Electronic Forms into a  
Single Enterprise  
System



Console Operator



Field Operator

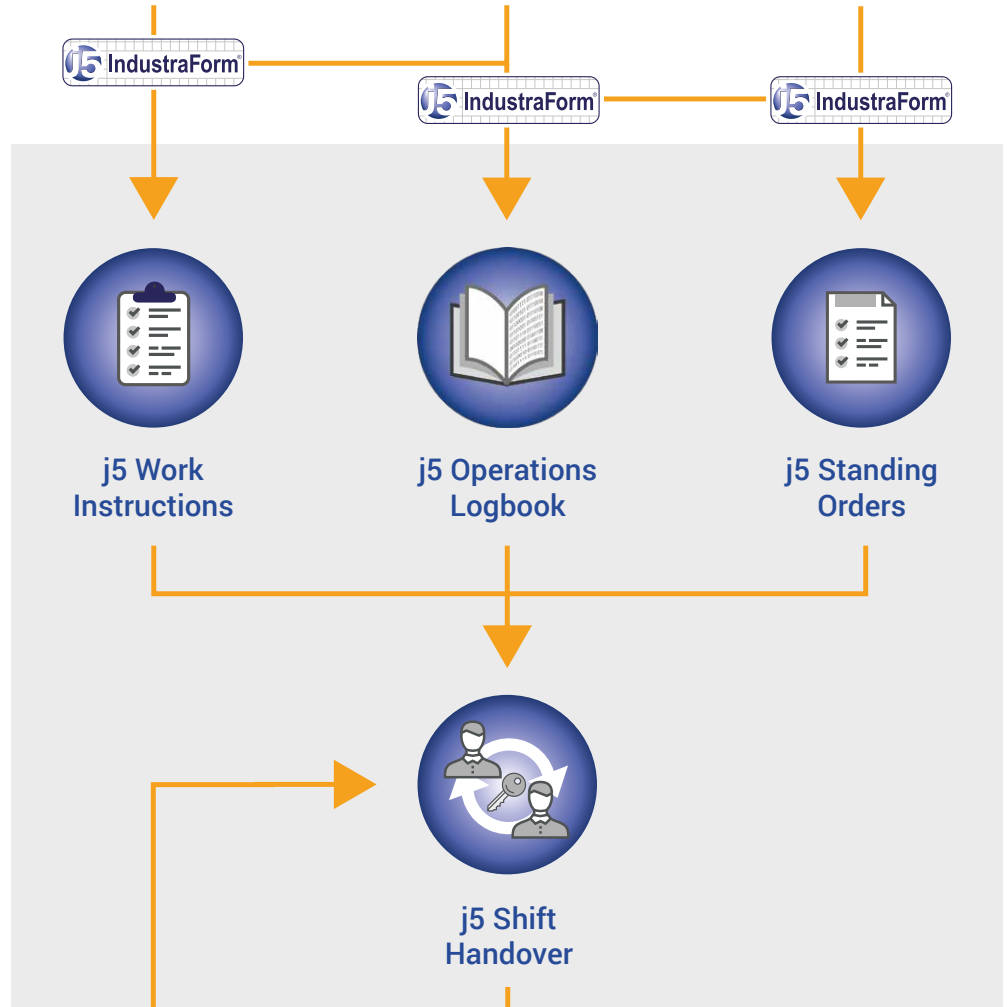


Shift Supervisor



*"We rely on j5 for logbook, handover, work instructions, standing orders, near misses and mobile inspection rounds. We would like to extend our use of j5 to other applications in the future."*

**Nobuyuki Takahashi**  
Executive Director  
Kainan Plant Manager  
Wakayama Petroleum  
Refinery



Process Data



Shift Handover Report



Corporate Team

## Showa Denko Oita Complex Case Study

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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

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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 International Provided the Solution

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j5 International has implemented the following solutions at Showa Denko Oita Complex since 2017:

- **j5 Operations Logbook**
- **j5 Shift Handover**
- **j5 Work Instructions**
- **j5 Standing Orders**
- **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.

### Benefits of j5 to Showa Denko Oita Complex

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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 have 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 Software provides an advanced business operations and technology transfer to young staff.

*“We were fascinated by the ease of use of the j5 Operations Logbook.*

*We introduced j5 Operations Management Software 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

j5 is a powerful Operations Management Platform that empowers people to manage and adapt evolving industrial processes.

## Safety

We now get reliable, validated site information which is key for us to maintain compliance and ensure the safety of our workers and the general public.



## Supervisors

Now I can issue instructions, and see that they are followed precisely. The worksheets collect and filter the important stuff from the units into a single sheet that I can also see on my mobile device.



## Production

We now know exactly how well operations have responded to our targets, and if not why not. With the real-time information AND operations logs, we are fully informed to define the next day's operations.



## Control Room

We now have rich real-time info in our Shift Handovers, in our target management, in procedures like start ups, in permits etc. Not having this data would seriously impact our efficiency, production and safety.



## Engineering and IT

Using a single, intuitive spreadsheet-like tool, we can control every aspect (content, calculations, workflow, communications, presentation etc.) in every worksheet across the organization.



## Management

Making informed strategic decisions requires validated data from a huge number of sources presented in a way that we can easily understand. We can also easily distribute our instructions and make sure they are carried out correctly.



## Field Operators

I am now connected to the rest of the team via my mobile and I no longer have to get back to the control room to find out what is going on.



THE ONLY OPERATIONS  
MANAGEMENT PLATFORM WITH  
SPREADSHEET CONFIGURABILITY  
AND ENTERPRISE SCALABILITY

**Contact j5 International  
for more information**  
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[sales@j5int.com](mailto:sales@j5int.com)

