

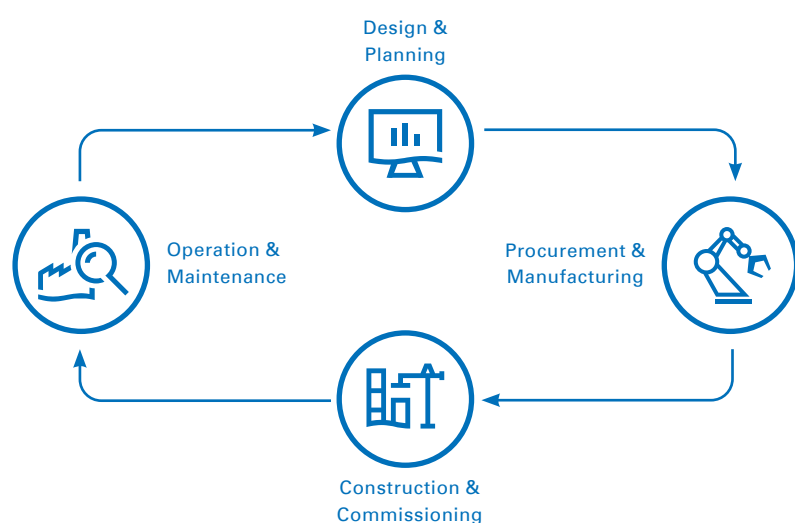


# Mastering the Complexity of Industrial Supply Chains, Together.

The world is changing rapidly, with technological advancements appearing almost every day. To stay competitive, businesses increasingly make use of digitalization, robotics, automatic processes and artificial intelligence. At the same time, expanding globalization requires legal compliance on an international as well as local basis. These issues are why managing industrial supply chains has become increasingly

complex, with a high potential for risk. To avoid damage due to delays, high costs, poor quality, liability, production bottlenecks, subcontractor concerns or even cyber attacks, it is crucial to have specialists at your side. Skilled professionals who focus on your needs at the right time during each phase – while keeping an eye on sustainability, process optimization and future-proof solutions.

## Your partner across of industrial supply chain phases



### BENEFIT FROM OUR VIRTUAL SUPPLY CHAIN SOLUTIONS

In an industry where the interaction of all parties involved is precisely coordinated and time is essential, there is immense pressure to complete projects without major delays. We are able to perform part of our inspections virtually. To save time, costs and effort without compromising on quality.

### SUSTAINABLE FROM THE START

For sustainable supply chain management, we help to find the right business practices in every phase of your supply chain. Our experts offer support in areas such as process optimization, supplier selection and regulatory compliance – for a lasting competitive advantage.

### OUR TWO APPROACHES – BASED ON YOUR NEEDS

Depending on your needs, we pursue two different approaches – for continuous improvement of your supply chain:

#### RISK BASED:

aimed at preventing dangers that can result in faulty process flows.

#### COMPLIANCE BASED:

aimed at identifying deviations from client and governmental requirements.



# Best Solutions for the Sustainable Success of Your Project.

Our Supply Chain Inspection Services offer you support during every stage. They include supplier assessment, expediting, inspection, supervision, testing, and much more.



## DESIGN & PLANNING

At this important phase, you have the unique chance to make certain that all further steps stay within time and budget constraints while, at the same time, developing sustainable processes. Our experts are on hand to help you investigate potential locations, examine legal and environmental regulations, calculate potential risks, and plan for future demands and requirements.

### OUR SOLUTIONS:

- Market access services
- Support with regulatory compliance
- Vendor assessments
- Expert knowledge of future-proof technologies
- Review of specifications
- ITP creation (inspection and test plans)

Take advantage of our experience and expertise to build on a strong and sustainable foundation right from the start.



## PROCUREMENT & MANUFACTURING

During this stage it is important to select the right material and machine suppliers. In parallel, in order to avoid delays and financial loss, you must ensure that the goods are delivered on time and with the required quality. We assist you with deciding on the best options for hiring the most suitable contractors. For a smooth project run.

### OUR SOLUTIONS:

- Supplier evaluation and inspection
- Familiarity with local and global regulations
- Expediting services for on-time delivery
- Pre-shipment inspection (PSI)
- Material testing and non-destructive testing
- Qualified staff with industry experience

Benefit from our support to ensure the components are correctly produced and delivered on time with the agreed quality and price.



**”** *Within the construction and commissioning phase of your industrial supply chain, it's important to keep an eye on good HSE and professional project management, which will prevent potential risks or hazards.*

*Mrs. Ellen Sun, General Manager of Industrial Inspection & Materials Testing - TÜV Rheinland Greater China*

### CONSTRUCTION & COMMISSIONING



There are numerous issues you need to consider in order to successfully coordinate construction and commissioning for industrial plants. Those include the establishment of quality controls, adherence to schedules, on-site work safety, compliance with HSE regulations, monitoring of costs, enforcement of contractual agreements, documentation of deviations, and the timely deployment of new and automated processes.

#### OUR SOLUTIONS:

- Ongoing site supervision
- Quality control of processing and construction
- Loading and unloading monitoring
- On-site inspections during assembly
- Vendor screening, worldwide

Our independent inspectors support you throughout the construction phase to monitor and document the progress of new buildings or major maintenance and renovation work.

### OPERATION & MAINTENANCE



Your facility is up and running. Now, you need to ensure smooth operation to avoid the risk of unplanned outages or even shutdowns. Optimal processes require continuous monitoring and inspection, skilled personnel to implement standards and replace components, ongoing development of new technologies, understanding of new regulations, and measures to control quality and safety.

#### OUR SOLUTIONS:

- Regular in-service inspections
- Assistance in the acquisition of qualified personnel
- Asset Integrity Management
- Material and equipment life-cycle analysis
- Virtual assessment

Our services provide a future-proof, competitive edge by supporting the continuous operation of your plants.





# Secure Your Supply Chain. Right on time.

At TÜV Rheinland our decades of experience and expertise enable us to deliver comprehensive services across your entire supply chain. With a global network of experts, we help you achieve cross-project optimization that lowers the risk of liability and financial loss. We assess and inspect your potential site, suppliers, equipment, operations and more. You also benefit from our continuous control and audit services, either on-site or virtually. In addition, we provide workshops for our clients to enhance communication between responsible internal and external parties.

Take advantage of our Supply Chain Inspection services to enhance competitiveness, safeguard your assets and intensify customer satisfaction – all from a single source. TÜV Rheinland – the right support at the right time.

Contact us to optimize your industrial supply chain, together.

[ONLINE CONTACT](#)

**”** *In order to have your supply chain perfectly under control during all phases of a project, it is essential to have good communication with your suppliers and, to improve their performance, to take corrective measures at an early stage.*

*Gunnar Siebert, Global Business Field Coordinator Industrial Supply Chain Solutions, TÜV Rheinland Germany*

#### **GET IN TOUCH!**

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