

# Startup & Commissioning

## What's your challenge?



Nearly 70% of early equipment failures can be traced to installation, startup or design deficiencies. <sup>(1)</sup>

Inadequate preparation has frequently resulted in prolonged and costly startups and an increased number of safety incidents. Your production success depends upon the craftsmanship and quality of work completed. Do you have the technical expertise, experience, and the time to ensure that your equipment is properly installed, calibrated, and configured?



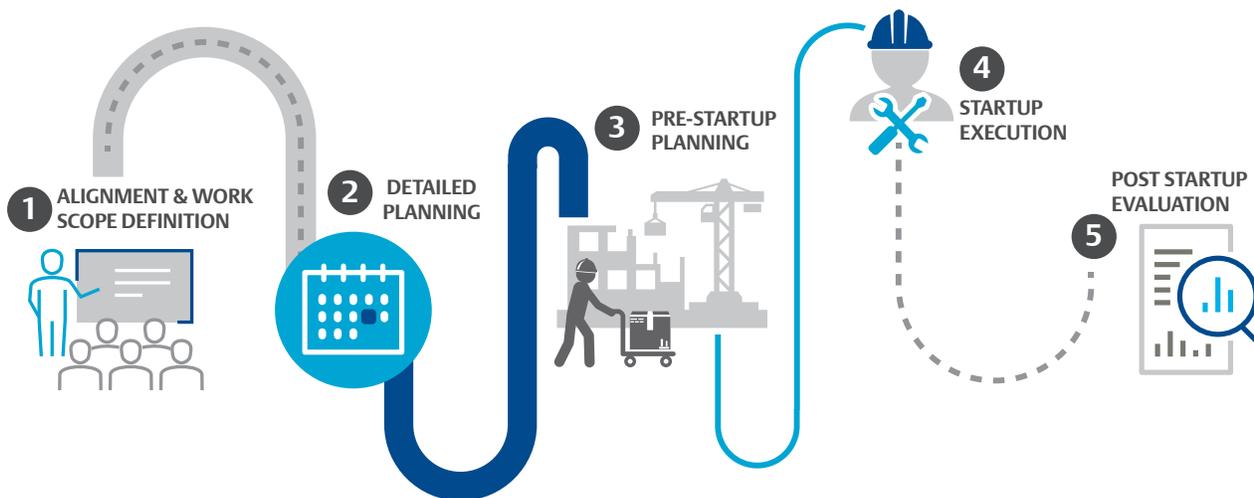
## What's your opportunity?



Stay on schedule, within budget, and mitigate safety risks when you partner with Emerson for your startup and commissioning projects. Whether you've got a brand new plant or you're coming out of a turnaround, we have the digital tools, proven processes, and expertise to support you.

An asset performance engineer and a certified service team are assigned to help properly plan and execute your plant startup. We'll ensure that the equipment is ready to operate and is in "as shipped" condition through calibration and loop checks. We verify and validate all is working properly before getting your production back online—giving you peace of mind. After your startup is complete, our experts discuss plant requirements and work with your operations personnel to help create a proactive maintenance plan, promoting asset lifecycle management for maximum uptime and throughput.

## Startup & Commissioning Process



(1) Efficient Plant Magazine

**LIFECYCLE SERVICES**  
Valves, Actuators & Regulators



# Meet your plant startup goals with an expert partner.

Rest easy with skilled valve installation, calibration, and configuration. Our extensive experience gives us an unparalleled understanding of the complexities involved with startup and commissioning. Our services are tailored to meet your plant or process needs, as well as designed to help you to control costs and maintain schedule deadlines.



## Stay on Schedule

Eliminate delays and associated costs due to improper installation and setup. Our certified technicians follow a Quality Management System of clearly defined and documented procedures with consistent checklists of completed tasks to eliminate guesswork when commissioning new and reconstructed plants and processes.



## Startup Safely

Most safety incidents happen during plant startup—minimize risk and potential penalties with properly trained specialists and regulated procedures. Our certified technicians recognize the vital importance of a strong quality, health, safety, and environmental (QHSE) focus while in your plant.

Startup and commissioning activities are performed using vetted safety protocols to help maintain a zero Total Recordable Incident Rate throughout the project. Our specialists employ high safety standards to ensure that assets and personnel are protected, so your startup can be a complete success.

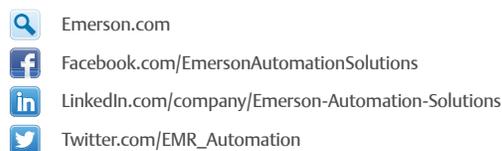


## Protect Critical Assets

All valve and critical equipment startup requires additional attention to perform flawlessly, therefore we offer a special set of hydro-flush trim during the commissioning of new processes and plants. This special flushing trim consists of sacrificial parts that allow the flushing fluid and any solid particulates in the system to pass freely through the valve body. This trim set protects the valve seating and gasket surfaces from damage during startup, while saving you the potential additional costs of another set of production trim.

Once the initial system flush is complete, we disassemble the valve, remove the hydro-flush trim, and conduct a thorough internal inspection before installing the final production trim. After the reassembly, we check and confirm “factory as built” quality, performance, and reliability by performing diagnostic tests.

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