

Flow Control services for  
Shutdowns and  
Turnarounds



Planning  
ensures  
reliability

# Efficient planning ensures availability

Shutdowns are complex events requiring specialized planning and efficient execution. An unexpected event can have an effect on materials, schedules and resources, unless you are prepared for the unexpected with the right partner and proper planning. A successful shutdown and a safe and reliable process relies on detailed planning.



Metso safety standard ensuring local and global know-how

Life-cycle thinking for safety and sustainability



## Planning

The right materials and resources where and when needed

## Execution

The full benefits of service excellence

Daily maintenance

## Your partner for shutdown planning

With Metso on board, you will have the right partner for crucial shutdown planning to ensure the correct work scope with the needed activities, and materials and resources for effective execution and a smooth start-up. All maintenance activities are implemented following Metso safety and quality standards and thoroughly documented. The key information can be used in future maintenance to improve safety and reliability.

### You get:

- Scope is defined based on maintenance needs, plans and service intervals
- Actions are defined based on installed base analysis, life-cycle status, maintenance history, equipment and process criticality
- Condition analysis pinpoints equipment needing proactive maintenance
- Recommendations of correct materials and resources
- Preparing for the unexpected

### Metso key activities:



Project Management    Engineering    Modernization and Upgrades    Life-cycle Planning    Installed Base Analysis    Condition Analysis    Criticality Analysis

### You get:

- High quality maintenance and repair is safely executed by valve service experts and by certified smart product service experts
- Latest design of OEM spare parts that meet original specifications
- Fast response for unexpected situations

### Metso key activities:



Project Management    Spare Equipment    Spare Parts    Maintenance and Repairs    Supervision

## Questions and Answers

How do you ensure a safe, efficient and on-time shutdown project?

Metso has the backing of an expansive network of service experts to plan and execute shutdown projects. Detailed shutdown planning ensures safe and efficient shutdown execution, on time.

Is the correct equipment, with the right activities, chosen for the work scope list?

In cooperation with you, the work scope is defined based on maintenance needs, maintenance plan and service intervals. The right activities are defined utilizing Metso services and expertise.

Have you prepared for the unexpected?

Metso service comes with know-how backed by a global network to be prepared for situations requiring quick thinking and specialist expertise. This means that the correct materials and skills are on hand and ready for even unexpected circumstances.

Do you have access to the correct materials and skills?

As the OEM, Metso has the experience with high quality parts and trained service experts to ensure properly executed maintenance activities.



Have more questions? Get more expert answers here:

[www.metso.com/showroom/oil-and-gas/video-a-well-planned-shutdown-ensures-reliability/](http://www.metso.com/showroom/oil-and-gas/video-a-well-planned-shutdown-ensures-reliability/)



Safe start-up for the process

Safety and environmental compliance

### Evaluation

Knowledge for future shutdowns

#### You get:

- Tag specific service reports and test certificates
- Recommendations for future maintenance, upgrades and replacements to improve process reliability and safety
- Continuous maintenance planning

#### Metso key activities:



Condition Analysis

Maintenance Planning



### Start-up

Expert support ensures a smooth start-up

#### You get:

- Service expert follow-up for installation and commissioning to secure a safe and on-time start-up
- Extended Metso specialists network available for unexpected situations

#### Metso key activities:



Start-up Supervision

Spare Equipment

Spare Parts

Maintenance and Repairs



**Metso Inc.,**  
<http://www.metso.com/industries/oil-and-gas>

