



# Successful outages / shutdowns

Do the right event, do the event right!

# Successful outages / shutdowns

Are your outages / shutdowns well prepared and managed?

Does the right work get done to the right cost?

Does the plant start up on time and keep running reliably?

Within the process industries outages / shutdowns have a high financial and performance impact on a business.

Well managed events enhance the safety performance, integrity, reliability and efficiency of operations. Badly managed events have the opposite effects and can also add significant costs.

**Capabilities**

ABB provides services before, during and after outages / shutdowns to help improve the chances of success for the current and future events. Success means doing the 'right event' and executing the 'event right'.

The 'right event' needs to be done at the right time, for the right cost and contain only the maintenance and improvement tasks that must be done with the plant off line, or those that can really be done at a much lower overall cost with the plant off line.

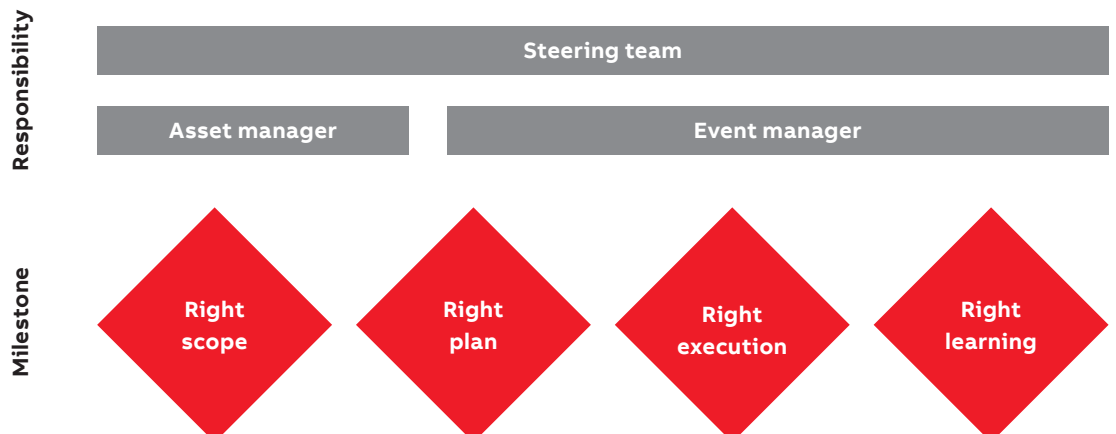
Executing the 'event right' means controlling the time, cost and quality of the event for all planned and emergent work. We cover both elements and have a well proven methodology to manage both.

**Our experience**

We have a unique blend of leading technical engineers and consultants combined with operational experience. We provide independent, informed and pragmatic guidance across the whole range of issues required for successful outages / shutdowns.

We have experience in event management, planning, asset management, inspection, reliability and a broad range of functional engineering.

Key milestones of successful outages.



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ABB model of outage excellence.



### Our approach

ABB's overall approach to delivering successful outages / shutdowns is captured in the model of excellence, a product of twenty years development and proven application. The services we provide all support the model of excellence approach.

### Services before events

- Optimising the work scope - automation hot cut over and Risk Based Inspection (RBI) services can reduce the work scope for events. Asset life plans and reliability studies highlight tasks that extend equipment life and improve plant performance
- Event preparation and planning - our outage / shutdown methodology and tools help you to plan, prepare and optimise the event
- Challenge planning - a proven approach to shortening event durations
- Readiness assessment - part of a suite of assessments identifying the appropriateness of event preparations and methods, then specifying actions to improve the performance of events
- Getting the timing right - strategy reviews help set optimum turnaround / outage intervals
- Training - either in technical issues or outage / shutdown methodologies

### Services during events

- Inspection services - experienced pressure systems inspectors to meet high inspection workloads
- Technical teams - experienced and practical engineers helping to make the right decisions quickly
- Execution methodologies - our outage / shutdown approach helps manage all areas of execution

### Services after events

- Review and improvement planning - post event assessments identify areas for improving your outage / shutdown methodologies and develop improvement plans

### Benefits

We can help you achieve:

- Events that align with your business, manufacturing and maintenance strategies
- Lower cost and shorter duration events
- Fewer production losses
- Fewer start up issues and improved reliability between events



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