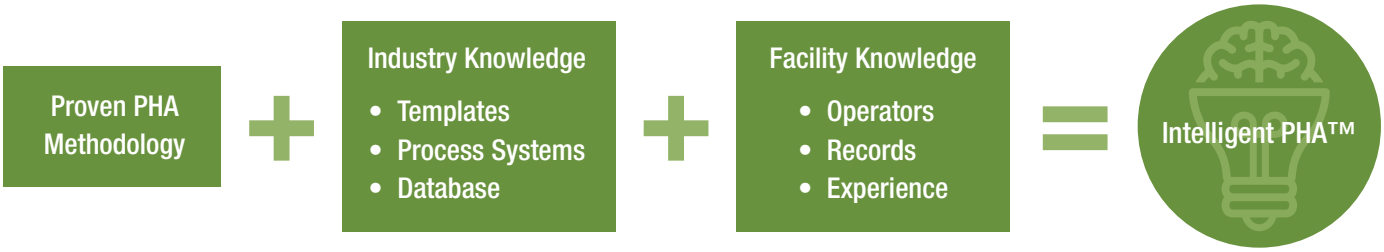
Driving Operational Excellence™

A New Way to Simplify and Enhance PHA

Process Hazard Analyses (PHA) are a foundational element to meet OSHA 1910.119 Process Safety Management (PSM) Regulatory and EPA Section 112(r) Risk Management Plan (RMP) requirements and must be revalidated every five years to remain in compliance. PHAs are also a valuable tool for assessing the risks of new projects or when evaluating change. Operational Sustainability® (OS) realizes that the effective use of PHAs for Operational Risk Management (ORM) as part of routine Conduct of Operations (CoO) can help companies **efficiently and effectively assess risk,** determine potential hazards, and evaluate mitigations to increase reliability, safety and profitability. Intelligent PHA has been developed to meet those broader objectives in addition to meeting regulatory requirements.

Intelligent PHA™ combines the rigor of proven PHA methodology with industry knowledge and the experiential knowledge of your facility's own employees into a software solution that can quickly and easily evaluate changes, assess risk, and evaluate the potential effectiveness of identified safeguards to not only evaluate process safety solutions, but also their attendant business impacts. PHA facilitators save 30-50% of their time in the pre-work phase when using Intelligent PHA. In addition, Intelligent PHA is a continuous improvement processes incorporating MOC to constantly update hazards as changes occur.



Traditional PHAs require a trained facilitator to establish the nodes or sections of the plant to be evaluated, determine that appropriate causes are being assessed, and assure that adequate safeguards have been identified and documented. **Intelligent PHA draws upon industry knowledge** to develop simplified process systems that can be evaluated for typical cause–consequence relationships, and then, based on experiential knowledge and input process and system data, can be used to determine potential risk. These standard assessments can be quickly reviewed by the team and enhanced with specific operational and maintenance information for the equipment or plant being assessed.

Intelligent PHA can be used to quickly apply the rigor of a thorough PHA to assess any process or operational change, allowing operations to accurately assess risk. The Intelligent PHA **templates allow for studies to be quickly set up and, through the included Intelligent PHA database, assure that common causes and effective safeguards have been identified.** Intelligent PHA documented data is saved by unit component and can be incorporated into the PHA regulatory review. The facility's Intelligent PHA equipment database can be maintained and updated for equipment, piping, pressure relief devices, and rotating equipment.

Intelligent PHA can save time in setting up and performing traditional PHAs, but it is most beneficial in making the PHA methodology an easy-to-use tool for MOC risk assessment and operational risk documentation. Companies can leverage models from the Intelligent PHA library to **save time** and ensure that all the **scenarios are thoroughly evaluated.**

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Intelligent PHA™

Benefits of Intelligent PHA:

- 30-50% time savings in Pre-Work Phase
- Reduced Revalidation Time
- Incorporation of Damage Mechanisms as a standard content library
- Improved study quality due to use of high-quality templates
- Reduced risk due to continuous MOC updates of PHA studies
- Standardization of nodes
- Risk visualization
- Setup for other value-added PSM functions such as relief device design

For more information email us at info@DrivingOE.com or call (713) 355-2900.

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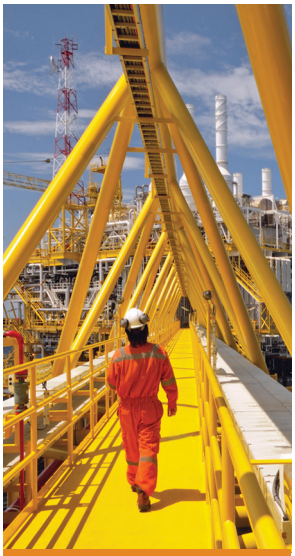
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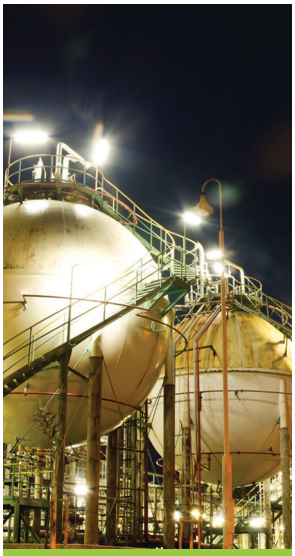
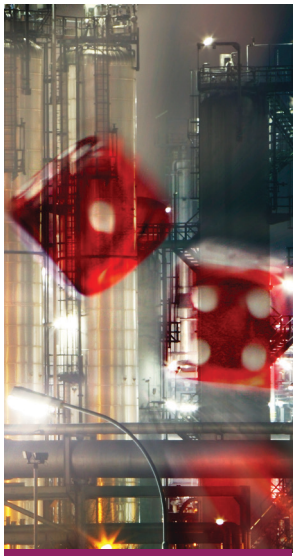

Assets

Operations

Compliance


Risk

Operational Sustainability® makes operational excellence simple.

Succeeding in today's complex, highly-regulated industries depends on how well your company manages **operational risk** and enables **operational discipline**. Our world-class advisory services and our industry-leading cloud-based, highly configurable software work together to enable your company to achieve **operational excellence**, including OE 4.0 tenets, and sustained **operational integrity**. We identify and help you solve any issues to move to a real-time, mobilized risk-aware culture. With an average of more than 30 years of industry experience each, our advisors can design a solution tailored to your company's culture and needs.

Learn how Operational Sustainability can advise your workforce through our consulting services and support your journey to operational excellence through our OESuite® software platform. See our full slate of free webinars, white papers, detailed module information, and scheduled workshops online at **www.DrivingOE.com**.

Schedule your free consultation and demo today.

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