



PHA-Pro

Expert Guidance for Process Hazard Analysis

PHA-Pro, the world's leading Process Hazard Analysis and HAZOP software, assists organizations with the implementation of risk studies easily and thoroughly, resulting in a more responsive and efficient business process. Used in process industries such as oil and gas, chemicals and pharmaceuticals, PHA-Pro will improve your bottom line by optimizing work time, minimizing work stoppages, and reducing the potential for undesirable events.

Challenges of Process Hazard Analysis

Incidents can result in time lost due to injuries, capital and production losses, environmental damage, and loss of company reputation as well as possible litigation. Companies need to be making every effort to meet regulations and reduce process risks by performing Process Hazard Analyses. Today's rapidly evolving and more complex process industry is under increasing strain as organizations must abide by more stringent safety and environmental regulatory requirements and simultaneously drive business revenues, increase efficiencies and decrease costs.

Why PHA-Pro?

Currently in Version 8, PHA-Pro™ offers a user-friendly, reliable, flexible and knowledge-based solution that has evolved through extensive commercial use over the last decade to meet the requirements at many of the world's largest companies. It is a proven technology, with preformatted industry-standard PHA templates and a myriad of features that are user-friendly and intuitive. In addition to pre-populated libraries, PHA-Pro allows you to capture language from previous studies to help build corporate libraries and promotes

knowledge sharing by ensuring that your engineering expertise is retained and accessible for future studies.

Knowledge Base – Achieve More Rigorous Studies

PHA-Pro comes equipped with the most comprehensive professional libraries available, including over 2500 checklist items to make your studies more complete. PHA-Pro helps you build on your previous studies to avoid wasting time and resources, allowing you to reuse past studies to retain valuable corporate knowledge and intellectual property, including past incidents.

Flexible and User Friendly

PHA-Pro has an open structure allowing you to customize templates to your company's specific guidelines and organizational needs, ensuring consistency and adherence to your corporate standards. The software also allows you to customize worksheets and forms of your existing templates, as well as build new templates enabling you to adapt to a variety of safety and reliability methodologies.

Data Management and Transparency

PHA-Pro's data linking features reduce the amount of time and effort required to finish a study and fulfill the recommendations and increases

New Features in Version 8:

- **Dependency Matrix** – helps to create matrix sheets that expand your capabilities to include new types of risk assessment techniques.
- **Conditional Data Mirroring** – allows automatic mirroring of data across sheets eliminating the need for you to repeat data entry in multiple worksheets.
- **Structure List** – create ad hoc breakdown structures via indentation in the rows.
- **Formula Functions** – new formula functions have been added to allow you to manipulate strings in text fields.
- **Tools** – 'macro' like feature automates your tasks, simplifies your work, and increases productivity.
- **New Languages** – now supports Portuguese and Korean in addition to previous availability in English, French, German, Japanese, Simplified Chinese and Spanish.

consistency across your studies by automatically replicating data in the appropriate areas. Advanced features for professional reporting, preformatted print reports, and the auditing tools available in PHA-Pro give your organization exceptional visibility into your process operations. Filtered reports according to specified requirements allow you to share your information in a variety of formats for easy and controlled access by both internal and external customers, while still maintaining security through double authentication features and document control management.

Regulatory Compliance

PHA-Pro is designed to help your organization put corporate-wide risk policies and programs into place and aid in the adoption of standards and regulations such as:

- OSHA 1910.119 PSM
- EPA 40 CFR Part 68 RMP
- Seveso II Directive
- CCPS LOPA
- Control of Major Accident Hazards (COMAH)
- IEC 61882
- IEC 61511, IEC 61508, ANSI/ISA S84.00.01
- ISO 31000
- CSA Standard Z1000

Industry Leading Features	Version 6	Version 7	Version 8
Dependency Matrix			✓
Structure List			✓
Formula Functions			✓
Available in Portuguese and Korean			✓
Enhanced Release Management			✓
Enhanced Change Tracking			✓
Right to Left Data Entry			✓
Ability to use Windows Authentication and LDAP to assign access rights			✓
Vista-compatibility			✓
Comprehensive libraries	✓	✓	✓
Pre-formatted Industry Templates	✓	✓	✓
Linked PHA, LOPA and SIL Templates		✓	✓
Enhanced AutoType and CopyFrom features display multiple columns of libraries		✓	✓
Data Mirroring – links data selectively and dynamically throughout studies		✓	✓
Linked Diagram – dynamically links diagrams with worksheets		✓	✓
Update Template – incorporate changes from a newly modified template into existing files		✓	✓
Recommendations Manager	✓	✓	✓
Enhanced security with double authentication feature		✓	✓
Multiple format for columns/sheets		✓	✓
Insert picture page from file		✓	✓
Criticality Matrix		✓	✓
Professional reports in HTML, MS Word, MS Excel	✓	✓	✓
Option for IT administrator to set up automatic data sharing and reports through Batch Mode		✓	✓
Incident Management Module		✓	✓
Management of Change Module		✓	✓
Action Tracking Module		✓	✓
Load Balancing		✓	✓

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