

PHAWorks RA Edition

PHAWorks RA Edition® allows you to conduct both PHA and LOPA studies together in the same worksheet. The software is the successor to PHAWorks 5 that has been used to complete thousands of high-quality studies worldwide. With PHAWorks RA Edition, you will quickly realize how much faster and easier documenting your PHA studies will become.

KEY BENEFITS

- Conduct PHA and LOPA studies in the same worksheet
- Easily switch between your PHA and LOPA studies
- Benefit from the intuitive user interface
- Select from 24 PHA methods such as HAZOP, CHAZOP, What If, FMEA, DHA, DMR and others
- Easily share data using the Resource Manager
- Use quick start guides to help you complete studies
- Complete protocols prior to starting your study
- Link common entries throughout your project
- Use the risk ranking wizard to create different risk rankings
- Use risk graphs to determine Safety Integrity Levels (SILs) for Safety Instrumented Functions (SIFs)
- Assign colors to cells in risk matrices
- View tooltips that provide technical and software guidance
- Use checklists provided to complete studies
- Add custom columns into the worksheet
- Name worksheet views
- Drag and drop (move or copy) data
- Customize study templates
- Convert your current PHAWorks 5 project files
- Evaluate key statistics of your PHA using a dashboard
- Use analytics to run queries and extract valuable information from studies
- Run metrics to provide insights into the safety of processes and the quality of studies
- Use Bypass Analysis to determine impact of disabling IPLs
- Perform data integrity checks on your project data
- Select entries from drop-down lists to enter into the worksheet
- Create snapshots of project data
- Copy data between projects using Quick Copy
- Use information from the library to assist in conducting studies
- Create hyperlinks in the worksheet and project level
- Highlight and change text color
- Assign scenarios to groups to calculate risk measures
- Create databases of safeguards, recommendations, and scenario groups
- Use QC checklists to complete a quality reviews
- Use standard reports or create your own custom reports
- Generate multiple reports at once using report groups

The screenshot displays the PHAWorks RA Edition software interface. The main window shows a HAZOP study worksheet for a '1. Toluene Storage Tank'. The worksheet is organized into columns for Causes, Frequency, Consequences, LOPA?, Safeguards, Type, IPL?, PFD, Enablers, Risk After Safeguards (S, L, R), Frequency, Tolerance, and Scenario Risk (RRR). The table contains two main entries: one for a level transmitter failure and another for a pump failure. A 'Quick Start Guide' sidebar is visible on the right, providing instructions for setting up a project.

Causes	Frequency	Consequences	LOPA?	Safeguards	Type	IPL?	PFD	Enablers	Risk After Safeguards	Frequency	Tolerance	Scenario Risk		
									S	L	R	RRR		
1. Level transmitter LT, TK-104 fails to detect high level	1x10 ⁻¹	1.1.1. Explosion with public impacts	<input checked="" type="checkbox"/>	1.1.1.1. Plant fire brigade 1.1.1.2. High level shutoff for tank, TK-104 1.1.1.3. Deluge system	HUM SIF ENG	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> 1x10 ⁻¹ 1x10 ⁻¹	Level of PM on level transmitter LT TK-104 Probability of ignition Probability of personnel in affected area	1	4	6	5x10 ⁻⁴	1x10 ⁻⁶	2x10 ⁻³
2. Pump P-100 fails on	1x10 ⁻²	2.1.1. Fire with employee impacts	<input checked="" type="checkbox"/>	2.1.1.1. Plant fire brigade 2.1.1.2. High level shutoff for tank, TK-104 2.1.1.3. Deluge system	HUM SIF ENG	<input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> 1x10 ⁻¹ 1x10 ⁻¹	Level of PM on Pump P-100 Probability of ignition Probability of personnel in affected area	2	3	6	1x10 ⁻⁴	1x10 ⁻⁴	None

Complete PHA and LOPA in the same worksheet