

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. Once you start using 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 23 PHA methods such as HAZOP, CHAZOP, What If, FMEA, DHA, DMR and others
- 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 multiple different risk rankings
- 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
- Drag and drop (move or copy) data
- Use analytics to run queries and extract valuable information from studies
- Customize study templates
- Select multiple entries from drop-down lists to enter into the worksheet
- Copy nodes and worksheet data between projects
- Create hyperlinks in the worksheet
- Zoom in and out to change the display
- Expand / collapse the banner fields displayed
- Assign scenarios to groups to calculate different risk measures
- Create databases of safeguards, recommendations, and scenario groups
- Use QC checklists to complete a quality review of your completed study
- Select from standard customizable reports or create and configure your own
- Generate multiple reports at once using report groups
- Convert your current PHAWorks 5 project files

The screenshot displays the PHAWorks RA Edition software interface. The main window shows a worksheet for a '1. Tolene Storage Tank' study. The worksheet is divided into sections for Causes, Consequences, LOPA?, Safeguards, Enablers, and Scenario Risk. The data is organized into a table with columns for Causes, Frequency, Consequences, LOPA?, Safeguards, Type, IPL?, PFD, Enablers, Value, Risk After (S, L, R), Frequency, Tolerance, and RRR.

Causes	Frequency	Consequences	LOPA?	Safeguards	Type	IPL?	PFD	Enablers	Value	Risk After ...	Frequency	Tolerance	RRR
1. Level transmitter LT, TK-104 fails to detect high level	1x10 ⁻¹	1.1.1.1. Explosion with public impacts	<input checked="" type="checkbox"/>	1.1.1.1.1. Plant fire brigade	HUM	<input type="checkbox"/>		Level of PM on level transmitter LT TK-104	5	1 4 6	5x10 ⁻⁴	1x10 ⁻⁶	2x10 ⁻³
				1.1.1.2. High level shutoff for tank, TK-104	SIF	<input checked="" type="checkbox"/>	1x10 ⁻¹	Probability of ignition	1x10 ⁻¹				
				1.1.1.3. Deluge system	ENG	<input checked="" type="checkbox"/>	1x10 ⁻¹	Probability of personnel in affected area	1				
2. Pump P-100 fails on	1x10 ⁻²	2.1.1.1. Fire with employee impacts	<input checked="" type="checkbox"/>	2.1.1.1.1. Plant fire brigade	HUM	<input type="checkbox"/>		Level of PM on Pump P-100	2	2 3 6	1x10 ⁻⁴	1x10 ⁻⁴	None
				2.1.1.2. High level shutoff for tank, TK-104	SIF	<input checked="" type="checkbox"/>	1x10 ⁻¹	Probability of ignition	5x10 ⁻¹				
				2.1.1.3. Deluge system	ENG	<input checked="" type="checkbox"/>	1x10 ⁻¹	Probability of personnel in affected area	1				

The interface also includes a 'Quick Start Guide' sidebar on the right with a 'Set-up Project' section containing 8 numbered steps for project setup, including entering project information, recording study purpose, creating protocols, and editing guide words and deviations.

Complete PHA and LOPA in the same worksheet