

# Guide to hazard and operability studies

**Chemical Industry Safety and Health Council of the Chemical Industries Association - Hazard and Operability (HAZOP)**

Guidewords/ Keywords		
The basic HAZOP guide-words are:		
Guide-word	Meaning	Example
No (not, none)	None of the design intent is achieved	No flow when production is expected
More (more of, higher)	Quantitative increase in a parameter	Higher temperature than desired
Less (less of, lower)	Quantitative decrease in a parameter	Lower pressure than normal
As well as (more than)	An additional activity occurs	Other valves closed at the same time (logic fault or human error)
Part of	Only some of the design intention is achieved	Only part of the system is shut down
Reverse	Logical opposite of the design intention occurs	Back-flow when the system shuts down
Other than (Other)	Complex substitution – another activity takes place	Liquids in the gas piping

Description: -

- Chemical industry -- Safety measures.

Chemical plants -- Safety measures.guide to hazard and operability studies

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Notes: Bibliography: p. 20.

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## IEC 61882

Therefore, there should be an action plan with properly assigned responsibilities with a target date. When performed properly in businesses such as refining, chemical industries, oil or gas, pharmaceutical, power generation, and other similar places, the identified hazards are sure to be remedied to prevent injuries, fatalities, and damage to equipment.

## Hazard studies

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## IEC 61882

Team Approach HAZOP is a brainstorming exercise in which individuals from different disciplines participate.

## IEC 61882

When Should a HAZOP Study Be Performed? The Bhopal India incident was the worst industrial accident in history, as a result, American Society of Chemical Engineers helping to develop , this is known as Process Safety Management.

## IEC 61882

To list all the possible deviations that can happen, we use standard guide words such as Low, No, Reverse and so on. Will it cost huge financing to repair or replace equipment, etc. This means that if you click on a link and purchase any of the products on this page, we may receive a commission, at no additional cost to you, It does not affect our knowledge sharing, opinions or reviews.

## What is HAZOP?

When considering the consequences, imagine that we are operating without safeguards, the operator is not paying attention, the control valve is manual, position alarms and safe interlocks are not working, and no one is following the procedures. A characteristic feature of a HAZOP study is the examination session during which a multi-disciplinary team under copyright 2017-Stdlibr ary All Rights Reserved.

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