



## Leakage and Dispersion of Hydrocarbons

### MODULE

#### About the Skill Module

This skill module covers accidental leaks and calculating concentration and dispersion of those leaks. This skill module also discusses how calculations can be made to keep people safe from exposure to leaks and what the risks are when working around hazardous materials.

[See example online learning module](#)

#### Target Audience

Anyone who needs to work with process safety engineers; this would include facilities engineers, operations and maintenance supervisors, project engineers and managers, entry level process safety engineers, experienced professionals new to oil and gas, and anyone who needs a general understanding of the breadth of the process safety engineering discipline. Technical staff from insurance companies and regulatory agencies have found the content useful.

#### You Will Learn

Participants will learn how to:

- Detect the conditions in which accidental release can occur, and identify the factors that affect the amount of release
- Assess gas and liquid leak rate equations
- Estimate vapor cloud size
- Describe the factors associated with gas dispersion
- Analyze the risks of Hydrogen Sulfide and oxygen deficiency on people
- Estimate downwind concentration of a leaked gas
- Estimate probability of fatality from exposure to a material
- Assess probit function and estimate probability of fatality using the function

#### Product Details

Categories: [Midstream](#)

Disciplines: [Process Facilities](#) [Health, Safety, Environment](#)

Levels: [Basic](#)

Product Type: Individual Skill Module

Format: On-Demand

Duration: 2.5 hours (approx.)

**\$250.00**