# Using Effigy

## Using the Kenexis Effigy® Fire and Gas Mapping Toolkit

Effigy solves the problem of where to put fire and gas detectors, why they need to be there, and how many detectors are required to achieve an acceptable level of protection. By verifying the coverage of an array of fire and gas sensors, Effigy validates that the locations chosen will provide the coverage desired.

This online course is a complete guide on use of the Kenexis Effigy® Fire and Gas Mapping Toolkit. Effigy® is a component of the Kenexis Instrumented Safeguard Suite of applications for development of the design basis of a full range of instrumented safeguards employed at process facilities.

## In this course you will:

- Understand the hardware and software architecture and requirements of the Kenexis Instrumented Safeguard Suite
- Learn to incorporate facility data and administration information for an FGS project

- Understand how facilities are broken down into monitored areas and how those areas are described in the overview section of each study
- Learn how to input information about the physical layout of a plant, including definition of equipment items which may also be leak sources that generate loss of containment scenarios
- Learn how to include full range of FGS detection equipment in your study, including optical fire detectors and point an open path gas detectors
- Learn how to execute fire and gas mapping algorithms using the operations required to develop desired results
- Understand the FGS mapping results including geographic coverage, geographic risk, and scenario coverage for fire detection and gas detection
- Watch and listen to lectures, examples, take quizzes, and review quiz answers

## About Kenexis

Kenexis is an independent engineering consulting firm. We ensure the integrity of instrumented safeguards and industrial networks. Using skills in risk analysis, reliability engineering, and process engineering, we help establish the design and maintenance specification of instrumented safeguards, such as safety instrumented systems (SIS), alarm systems, fire and gas systems. We use the same skills for industrial control systems (ICS) network design, cyber security assessments, and industrial network performance analysis.

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