



DIGITAL SOLUTIONS

SAFETI ADVANCED EXPLOSION MODELLING

Course code: SA-13
Duration: 1 day

Prerequisite:

The course is suitable for users familiar with Safeti software and who have previously attended SA-01 Phast training and SA-02 Safeti training. SA-03/06 Safeti advanced modelling and SA-12 Safeti would also be of benefit, but are not mandatory.

DESCRIPTION

Safeti's extension for modelling the risks from explosions takes account of the effects of congestion and confinement when calculating overpressure and impulse results. The extension contains both the Multi Energy and Baker Strehlow Tang explosion methodologies.

The course goes into technical details about the explosion and vulnerability modelling available in the Safeti explosion extension. It describes the theory behind the Multi Energy and Baker Strehlow Tang models as implemented in Safeti and provides background information on GAME, GAMES and RIGOS projects and the Yellow Book and BEVI guidance documents and provides information on how this guidance can be applied in Safeti.

This includes hands-on guidance on best practice approaches to breaking up real plant geometries into obstructed regions based on the guidance literature.

LEARNING OBJECTIVES

Upon completion of this course, you will have a good understanding of the theoretical basis of the congested explosion modelling and vulnerability modelling features available in the Safeti explosion modelling extension. It supports you in calculation of effects from explosions and the impact of different vulnerability characteristics and its impact on people, for applications such as occupied building analysis.

TARGET GROUP

Experienced risk analysts with previous experience using Safeti who need to carry out detailed risk modelling calculations involving explosions and vulnerability modelling for occupied building analysis. The training does not cover Phast and Safeti usage and assumes delegates are already familiar with the software, including the functionality provided by the explosion risk extension software.