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• Fire and gas detection.
• Firewater systems.
• Functional safety and safety integrity levels (SIL)
• Layer of protection analysis (LOPA)
• Bowtie analysis.
• Emergency response
• HAZOP and other hazard/risk identification techniques.

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• Modelling liquid, gaseous, and two-phase releases and dispersion.
• Consequence modelling, including: fire, explosion, toxic, eco-toxic effects and projectile impacts.
• Methods, including computational fluid dynamics (CFD).
• Accident investigation and modelling.

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• Toxic releases and exposure assessment.
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• Process pipelines security and terrorism.
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- Waste minimisation
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