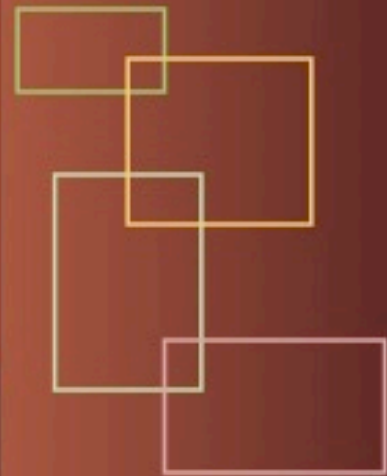


# The Essentials of Safety Instrumented System and Safety Life Cycle Engineering Training

“The Advance Course of Engineering, Practical and  
Technical Knowledge of SIS & SLC”



# The Essentials of Safety Instrumented System (SIS) and Safety Life Cycle (SLC)

## Core Value:

*"The Advance training to cover the Essentials of the SIS and SLC to strengthen the engineering knowledge and practical capability to the real case implementation"*

- Integrated materials
- Game Session – Hazard Identification and Risk Assessment
- Case Study – Determining the proper SIS system for a Production Plant facilities
- Game Session – SIL Assessment
- Hands-On Skills for Real Work Implementation

# The Essentials of Safety Instrumented System (SIS) and Safety Life Cycle (SLC)

## Purpose

To develop good understanding and fundamental knowledge regarding the Safety Instrumented System (SIS) and Safety Life Cycle (SLC) including the safety philosophy, system engineering and safety implementation in correlation with several industrial standards

## Training Content

Fundamental of safety, safety defense-in-depth operations, safety risk assessment, safety instrumented system essentials, safety life cycle essentials, case study and game session

## Detail Syllabus

Please refer to the page 4 to 6



# The Essentials of Safety Instrumented System (SIS) and Safety Life Cycle (SLC)

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## Targeted Participants

Instrument Control Engineer/Technician, HSE Engineer/  
Technician, Mechanical Engineer/Technician, Process  
Engineer/Technician, Operations Department (Plant  
Operator/Supervisor), IT Engineer/Technician

Enroll Now !

Please email us at [fedco@fedco.co.id](mailto:fedco@fedco.co.id) or register online  
at [fedco.co.id/register](http://fedco.co.id/register)

P A G E 3

S I S E C

# The Essentials of Safety Instrumented System (SIS) and Safety Life Cycle (SLC)

## Day 1

- Opening Questions
- Course Overview
- Hazard and Risk in Industry
- Safety Philosophy
- Defense-in-Depth in Plant Operations Safety
- Safety Risk Assessment
- Game Session
  - Hazard Identification and Risk Assessment

# The Essentials of Safety Instrumented System (SIS) and Safety Life Cycle (SLC)

## Day 2

- The Essentials of Safety Instrumented System (SIS)
  - Introduction to Safety Instrumented System
  - Industrial Standard Explore
    - ✓ ISA 84, IEC 61505 and IEC 61511
  - Design and Engineering
    - ✓ System design, architecture & engineering
  - Operations & Maintenance Framework
    - ✓ Safety operations framework
    - ✓ Testing and Maintenance
    - Case Study

Determining the SIS system for Production Plant facilities

# The Essentials of Safety Instrumented System (SIS) and Safety Life Cycle (SLC)

## Day 3

- The Essentials of Safety Life Cycle (SLC)
  - Introduction to Safety Life Cycle
  - Safety Integrity Level (SIL)
  - Safety Instrumented Function (SIF)
  - Safety Requirement Specification (SRS)
- Game Session – SIL Assessment
- Course Wrap Up
- Closing

## Course Period

3 Days – Full time course

## Venue

Offline (On-site or Off-site) and Online training

## Price

IDR 14.950.000/participant (local)

USD 1,495/participant (international)

## Notes

- ✓ The training cost including training module, certificate, lunch, coffee break and souvenir
- ✓ Accommodation and transportation are excluded from the training cost
- ✓ Minimum 2 participants to run the course for Offline training





**FedCo International**  
Depok City, Indonesia  
Call Center : 0889-1-366-366  
Email: [fedco@fedco.co.id](mailto:fedco@fedco.co.id)  
Website: [www.fedco.co.id](http://www.fedco.co.id)

C O N T A C T