

TRAINING TITLE

MAINTAIN INSTRUMENTED PROTECTION SYSTEM (IPS)

TRAINING DURATION

5 days

TRAINING VENUE AND DATES

REF RM053	Maintain Instrumented Protection System (IPS)	5 days	21 – 25 Oct, 2024	\$6,500	Amsterdam
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In any of the 4 or 5-star hotels. The exact venue will be informed later.

Training Fees

\$6,500 per participant includes Training Materials/Handouts, Tea/Coffee breaks, Refreshments, and Lunch.

Training Certificate

DEFINE Management Consultancy & Training Certificate of course completion will be issued to all attendees.

TRAINING INTRODUCTION

Instrumented Protection Systems (IPS) are crucial for ensuring safety in industrial operations by monitoring and controlling processes to prevent accidents. Effective maintenance of an IPS is essential to ensure it functions correctly and meets safety standards.

Key Aspects:

- Purpose: IPS detects and responds to abnormal conditions, protecting equipment and personnel.
- Components: Includes sensors, control systems, alarms, and actuators.
- Maintenance Activities: Regular inspections, calibrations, testing, and documentation.
- Challenges: Managing aging equipment, keeping up with technological advancements, and balancing maintenance with operational needs.
- Proper maintenance helps ensure the IPS remains reliable, efficient, and compliant with safety regulations.

TRAINING OBJECTIVE

Upon the successful completion of this course, participants will be able to understand:-

The primary objective of maintaining an Instrumented Protection System (IPS) is to ensure the system operates effectively to safeguard industrial processes by:

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- Ensuring Reliability: Keeping the IPS functional and responsive to abnormal conditions to prevent accidents and equipment failures.
- Meeting Compliance: Adhering to safety regulations and industry standards to avoid legal and financial repercussions.
- Optimizing Performance: Enhancing the efficiency and longevity of the IPS components through regular upkeep and calibration.
- Protecting Safety: Safeguarding personnel, equipment, and the environment from potential hazards by maintaining system integrity.
- By achieving these objectives, organizations can maintain a safe and efficient operational environment.

TRAINING METHODOLOGY:

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

All presentations are made in excellent colourful power point. Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

WHO SHOULD ATTEND?

- Maintenance Technicians and Engineers
- Control System Engineers
- Safety Managers
- Operations Managers
- Instrumentation Specialists
- Quality Assurance Personnel
- Training Coordinators
- Compliance Officers
- Emergency Response Teams

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COURSE OUTLINE

Day 1: Introduction and Fundamentals

- Overview of Instrumented Protection Systems (IPS)
- Key Components and Functions of IPS
- Safety and Regulatory Standards
- Introduction to Common IPS Technologies
- System Architecture and Integration
- Q&A and Group Discussion

Day 2: Maintenance Procedures

- Routine Inspections and Best Practices
- Calibration Techniques for Sensors and Instruments
- Troubleshooting Common Issues
- Hands-On Workshop: Performing Routine Maintenance
- Case Studies of Common Maintenance Scenarios
- Q&A and Feedback Session

Day 3: Testing and Documentation

- Testing Procedures for IPS Functionality
- Documentation and Reporting Requirements
- Creating Maintenance Logs and Records
- Hands-On Workshop: Testing and Documenting IPS
- Review of Documentation Best Practices
- Q&A and Group Discussion

Day 4: Advanced Topics and Compliance

- Advanced Troubleshooting and Problem-Solving
- Compliance with Updated Safety and Industry Standards
- Handling Aging Equipment and Upgrades
- Hands-On Workshop: Advanced Troubleshooting
- Compliance Review and Case Studies
- Q&A and Final Review

Day 5: Training and Implementation

- Training Techniques for IPS Personnel
- Developing and Implementing Maintenance Schedules
- Integrating IPS Maintenance with Overall Safety Programs

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- Role-Playing
- Final Q&A and Course Evaluation
- Certification and Closing Remarks

NOTE:

- Pre & Post Tests will be conducted
- Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.



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