



FMRIMS	<h1>Risk Management</h1>	Reliability, Integrity & Maintenance Training
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Course Description

The course covers risk management program development and implementation to lead an oil & gas company to a pacesetter performance comprising of:

- Comprehensive risk assessments can reduce risks to safety, health and the environment and mitigate the consequences of incidents by providing essential information for decision making.
- Risks are inherent in all oil and gas exploration and production activities. While risks cannot be eliminated completely, they can be minimized and mitigated by systematic risk assessment and management techniques. Although risks cannot be precisely determined, efforts must be made to establish priorities for risk prevention and mitigation measures.
- The Risk Management training program provides a common framework for identifying and managing risks associated with oil and gas operations.
- Risk Management training program includes requirements for systematic hazard identification and risk screening for use on a day-to-day basis, as well as the development and execution of a base business and formal or structured risk assessment and risk management process. Findings from risk assessments lead into risk management, in which the findings are evaluated together with business and community considerations to arrive at prudent and realistic actions to mitigate and minimize risks.
- Risk Management training program describes a follow-up process to document, steward, and communicate formal risk management decisions through to closure of all items. Requirements for continuously improving Risk Management through verification, measurement, and feedback are also described.

Who Should Take the Course

The course is ideal for persons with assigned responsibilities improvements in the risk, reliability and maintainability area, as well as managers who want to increase awareness of the payoffs of improvements managements.

Engineers who need to know the risk management as they apply to developing improvement programs. Design engineers, technical specialists, maintenance specialists, operations technical specialists, reliability specialists, and product/program managers will benefit from the course.

What Will You Learn

The participants will gain knowledge of programs and methods to achieve risj improvements to reach target performance. They will learn the proven Best Practices that are appropriate to apply for different development situations as well as the basics of implementing the practices to reach reliability, availability and maintenance cost reduction targets.

Included Materials

Attendees will receive a copy of:

- Risk Assessment Handbook
- RAM Guide
- ISO 20815 Reliability Management



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- Course Text Book
- Course Slides

Course Outline

Formal Risk Assessment

- Coordinated risk assessment plan
- Prepare for risk assessment
- Conduct risk assessment
- Prepare risk assessment summary report
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Risk Management

- Review risk assessment
- Prepare risk management actions
- Prepare a communication plan

Risk assessments to consider:

- Site chemical inventory
- Exposure to chemicals and physical hazards
- Occupational health issues
- Chronic and episodic environmental aspects
- Products
- Physical security
- Offsite consequences

Expertise Required to carry out risk process:

- **Technology** – applicable government regulations, as well as, ExxonMobil and industry standards and specifications
- **Operations, maintenance, construction, fabrication** – procedures for recurring and non-routine activities
- **Human factors** – experience in applying human factors in risk analysis
- **Physical Security** – experience in applying physical security to risk analysis
- **Knowledge** – risk analysis methodologies
- **Function** – all applicable functional expertise, standards, and regulations
- **Project** – project execution plans and available project resources



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Activities to verify the risk process and procedures:

- Roles and responsibilities for the Risk Management have been assigned and the persons concerned are aware of their roles, and are meeting their responsibilities (to be determined by interviews and review of records).
- Hazard identification, evaluation and control and formal risk assessment and management activities have been carried out as established by the Risk Management and procedures.
- Results of hazard identification, evaluation and control and formal risk assessments have been incorporated into operational procedures, as appropriate, or flagged to indicate that specific procedures are recommended to prevent or mitigate a formally assessed risk.
- Periodic compliance reviews or assessments of the Risk Management System to be made, and improvements documented, reported to management, and incorporated into the Risk Management.

Course Instructor: Namik Kosaric is a Canadian Professional Engineer with experience with PETRONAS, Bahrain Petroleum Company and ESSO Petroleum Canada in reliability improvements and maintenance cost reduction, mechanical design, project engineering and technical support of Oil Refineries and Oil Production Facilities.

For the last 8 years in PETRONAS Namik Kosaric was responsible for providing technical and knowledge leadership in development, coordination and implementation of plant reliability and integrity improvements and program to PETRONAS OPU's to improve and support the overall Petroliaam Nasional Berhad objectives.

In BAPCO, Namik Kosaric, pioneered and implemented a root cause failure analysis of lost profit opportunities and chronic failures using a multi-disciplinary teams to improve plant reliability, availability, safety and to ultimately reduce operating costs. Significant cost savings were achieved as a result of over 200 completed investigations.

For 23 years in ESSO Petroleum Canada, Namik Kosaric has made significant contribution worldwide in reliability improvements, design, projects and maintenance cost reduction in upstream and downstream facilities.

