

**Ahmed Ismail**

**Instructor**

### **Career synopsis**

Process Safety :

Asset Integrity and Process Safety Lead in one of the top 5 companies in Egypt. I have recently completed my Master's degree in process safety and loss prevention at the University of Sheffield. I am a certified PHA HAZOP Leader from TUV. I also joined the 'Process Safety Capacity Building Program' which has been sponsored by the petroleum ministry and conducted by DNV-GL and I have completed all phases of the program. The program was 12 months of intensive courses, workshops, and projects. It started with a process safety management boot camp based on CCPS 20 Elements, followed by barriers management, HSE Case, ETA, FEMECA, FTA, HAZOP, HAZID, QRA, FERA Using Safeti/phast software, Modern Safety Management, Auditing using Assessor using ISRS Software.

AI-PSM Auditor:

I have participated in process safety audits led by the Petroleum Ministry and EGPC for Egyptian petroleum sector companies. The scope of audits includes PSM Gap analysis based on CCPS 20 Elements, Physical barrier assessment, and culture survey. The scope also includes Performing HAZID & Bow bow tie workshops. Companies in which I participated in their audits are:

- Participated in PSM audits as part of Mistry of Petroleum PSM Audits Campaign:

Exporation and production companies:

- Petrobel- Zohr field.
- Abu Qir Petroleum Company.

Refineries:

- Suez Oil Processing Co (SOPC),
- Amreya Petroleum Refining Company (ARPC).
- Alexandria National Refining, and Petrochemical Company (ANRPC).

Petrochemicals companies:

- Sidi-kerir Petrochemicals Co (SIDPEC)

Operations:

Operations senior supervisor with 12 years of experience. Areas of expertise include all upstream operations starting from natural & artificial oil wells, HPHT gas wells, oil processing, gas processing including gas sweetening via amine process, gas dehydration via TEG process, hydrocarbon dew-pointing via the turbo expander, and gas compression.

Projects:

Operation readiness in gas development projects starts from engineering, pre-commissioning, commissioning, and start-up.

Instructor & Training:

Provide Process safety Foundation course that is accredited by IChemE as part of the Process Safety Capacity Building Program Wave-2 which is sponsored by the Ministry of Petroleum, Egypt.

Week 1 Topics :

- Process Safety fundamentals -IOGP
- CCPS-Risk Based Process Safety Management system-20 Elements

Week-2 Topics:

- Barrier Management

- Introduction to Risk assessment Techniques
- How to read design Engineering and design Documents
- HAZID & HAZID workshop
- HAZOP & HAZOP workshop
- LOPA-LOPA Workshop
- Introduction to function safety
- SIL

Provide class room courses as a part of competency program at Zohr Project " The biggest gas development project in the middle east ( Eni-Petrobel)

Courses that have been delivered :

- Field Instrumentation
- Basic Control Training Control
- Tank Design, Demin Water System
- Steam Generation
- Upstream Production Process
- Amine Process.

Provide On-Job Training for New Engineers and Operators as part of Competency Program at El-Gamil field & Zohr Plant.

### **Professional experience**

#### **February 2021-Until now - Process Safety Lead - BAPETCO, Egypt**

- Develop 5Y Asset Integrity-Process Safety Management Plan  
Establishes a company risk register.  
Manages the transition period from the old joint venture Shell to new joint venture, Chevron.  
Lead and participate in all process safety studies ( HAZID, HAZOP, BOW-Tie, QRA, FERA, HSE Case)  
Conducts internal Process safety audits  
Conducts physical barrier assessment to ensure safety critical elements adequacy and effectiveness.  
Participates in Well Integrity Management Improvement Program  
Report and Tracks AI-PSM KPIs  
Lead Incidents investigations and root cause analysis for process safety events  
Analyzes company incident trends and proposes remedial actions.  
Conduct Process safety training for ( Front line Technicians, Middle management, and Top Management)
- Curriculum development
- Personnel training
- Knowledge test / assessment

#### **January 2019-January 2021 - Operations Integrity Focal Point - BAPETCO, Egypt**

- Operations Focal Point for ICSS Upgrade Project at Bed-3 Plant, Participated in all stages of upgrade project design, FAT and SAT, commissioning and start-up.  
Led Alarm management system set up including initial set up workshop, rationalization, prioritization, settings review, potential hazards & consequences identification, and inside/outside operator actions identification.  
Led configuration of Alarm Management software 'PAS' to establish a robust alarm management reporting system.  
Managed alarm management process during operations, including tracking and investigating bad actors, stale alarms, and inhibited alarms.  
Responsible for:
  - MOC process, including facility change proposals, alarm and trip change requests
  - LO-LC Register, passing valves register, temporary equipment, and temporary repairs
  - Safety system overrides process, and its related risk assessments.

Provided process safety related training for engineers and operators within Plant

Updated plant cumulative risk tool

- Curriculum development
- Personnel training
- Knowledge test / assessment

#### **November 2017-Until now - Instructor - Enppi & OGS Oil and Gas Skills Training Center, Egypt**

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- CCPS-Risk Based Process Safety Management system-20 Elements

Week-2 Topics:

- Barrier Management
- Introduction to Risk assessment Techniques
- How to read design Engineering and design Documents
- HAZID & HAZID workshop
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- Personnel training
- Knowledge test / assessment

#### **January 2016-December 2018 - Plant Senior Supervisor - BAPETCO. (Shell E&P JV in Egypt)., Egypt**

- Played key role in driving Management of Change Procedures that resulted in Safe Plant Operation such As alarm Management, Facility change Proposal, Temporary repair, Temporary equipment, LOLC Registers, etc..

Performed data analysis and provided recommendations to achieve Operation Excellence.

Prepared plans and Procedures for Shutdowns and start Up for Plant, Facility, and equipment.

Participated in Root Cause Analysis and remedial actions in case of abnormal conditions.

Participated Risk Assessment of High/Medium risk Activities in the plant.

Participated in Weekly Maintenance Plan.

Participated in review and update Asset Register.

Participated in Coaching and Increasing Competency Level for New engineers and Operators.

Assisted in engineering new projects for Plant Upgrades and Long Term Project for Maximizing Production.

Coordinated manufacturing, construction, installation and maintenance projects for engineering team to complete per customer requirements.

- Curriculum development

- Personnel training
- Knowledge test / assessment

**November 2014-January 2016 - Plant Shift Supervisor - BAPETCO. (Shell E&P JV in Egypt), Egypt**

- Supervision and Maintenance of Plant Operations and Maintenance  
Supervised operations and maintenance activities in accordance with Shell HSE regulations and Bapetco Procedures.  
Participated in daily Permit To Work and Task Risk Assessment Meetings.  
Ensured proper safety precautions and effective tool box talks between permit applicant and work executors.  
Followed up and closed construction, commissioning, and start-up queries related to the plant.  
Participated in performance tests to ensure the plant meets design criteria.  
Monitored plant's operating conditions and updated the LO-LC Register.  
Ensured all override were recorded and mitigation in place.  
Managed corrective maintenance and prioritized notifications according to CMPT using SAP.  
Represented as On Scene Commander for emergency response situations/Drills inside the plant.  
Managed manpower, including shift swaps, vacation schedule, overtime, leave requests, and operator training.
- Curriculum development
- Personnel training
- Knowledge test / assessment

**February 2013-November 2014 - Operation Readiness Engineer - Assil Karam Gas Development project in BAPETCO-Shell JV, Egypt**

- A member in the team responsible for provide operations requirements into the project in accordance with the standards, detailing the operations requirement into design, and participating in reviews of the plant design to ensure it provides an ergonomic, functional, fit-for-purpose facility, and simple to operate.  
Participated :  
- Various studies and activities to ensure that operability, maintainability and integrity issues are properly addressed and optimized.  
- Alarm management and Operating envelope study as a member in the initial setup team.  
- Risk based inspection RBI study.  
- HAZOP & SIL Assessment, BOW Tie, SIMOPS, HSE Operate Case  
- Developing the competency program for the new operations staff and coaching the operation team.  
- FAT & SAT of the Integrated Control and Safe Guarding System ICSS.  
- Asset Register Build workshops.  
- Review operating manuals, commissioning procedures, start-up procedure.  
-Conducted Human Factor Engineering (HFE) & Operability Review.
- Curriculum development
- Personnel training
- Knowledge test / assessment

**June 2010-February 2013 - Operation Supervisor - AESW Field, BAPETCO. (Shell E&P, Gas De France, and VEGAS), Egypt**

- Responsible for all operation & maintenance activities according to Shell HSE regulation, i.e ensure Permit-to-work compliance & manual of permitted operations (MOPO).  
Prepared Field Budget (CAPEX, OPEX).  
Performed daily TRA "Task risk assessment"/PTW meeting.  
Initiated SAP notifications, work preparation, closing work orders after job completion, and ordering

required material on SAP.

Participated in the commissioning and start-up team for Early Gas Production from Assil Field.

Participated in installation and testing for ESP, Jet Pumps, Sucker Rod wells.

Participated in Frac operations for wells.

Managed field operations to optimum efficiency, in order to deliver the product at the required specification.

Developed operator task lists, operator rounds and shift handover reporting.

Performed operations plans and ensure manpower availability in carrying out tasks according to the plan.

Leading the emergency response situations, in close cooperation with the shift Manager

- Curriculum development
- Personnel training
- Knowledge test / assessment

### **January 2010-June 2010 - Production Engineer - AESW Field, Petro Alam Company (Vegas and Gas de France), Egypt**

- Participated in all Operation and Maintenance activities in AESW field.
- Curriculum development
- Personnel training
- Knowledge test / assessment

### **Education and qualifications**

<b>Type</b>	<b>Name</b>
2021 - 2023, Master	The university of Sheffield, Process Safety and Loss Prevention
2004 - 2009, Bachelor	Faculty of Engineering Cairo University, Petroleum Engineering
2024	TUV-SUD, Certified PHA HAZOP Leader, 40 hours
2019	DNV-GL, Process Safety Boot Camp 2, 50 hours
2020	DNV-GL, Process Safety Boot Camp 2, 50 hours
2020	DNV-GL, Phast and Safeti Software for QRA and FERA, 40 hours
2019	DNV-GL, Modern Safety Management system MSM2, 40 hours
2020	DNV-GL, International Sustainability Rating System ISRS Assessor, 40 hours
2020	DUPONT, HSE Leadership Course, 40 hours
2020	Ken Blanchard, Situational Leadership, 24 hours
2019	PRACTE, Change management" Wall breakers Board Simulation ", 24 hours
2020	DCarbon., Sustainability Development and Reporting, 24 hours
2020	Platinum Partners, Corporate Governance Orientation workshop, 24 hours
2020	Franklin Covey, The Seven Habits of Highly Effective People, 24 hours
2018	NEBOSH, NEBOSH International Technical certificate in Oil and Gas Operational Safety Certificate No: 00423329, 40 hours

2017	OPITO, Level 3 Certificate in Petroleum Processing Certificate, City& Guilds, 100 hours
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