

PROFESSIONAL RESUME

NAME: FAYYAZ MOAZZAM
POSITION: Principal Consultant
NATIONALITY: Pakistani (UAE Resident)
 UK Resident (2008-2010)
TOTAL EXPERIENCE: 30 years in Petrochemicals, Oil & Gas Industry

HIGHER EDUCATION AND QUALIFICATIONS:

BSc Chemical Engineering, 1980, University of Engineering & Technology, Lahore.

CERTIFICATIONS:

- Certified Functional Safety Expert (CFSE) – CFSE Governance Board, USA
- TÜV Certified Functional Safety Professional (ID: TP10050264), Germany
- HAZOP Study Leadership & Management – Institution of Chemical Engineers, UK
- Accredited HAZOP Study Leader – ICI, UK
- HAZOP Study Leader Training – Exxon
- Layer of Protection Analysis (LOPA) – Institution of Chemical Engineers, UK
- Associate Value Engineering Specialist (Certification No. 201601068) – Society of American Value Engineers, USA

CORE SKILLS:

- HAZID / ENVID / OHID / HAZOP / CHAZOP / SIMOPS / FMEA / E-HAZOP Chairman
- Safety Integrity Level (SIL) Assessment, SRS, SIL Verification & Validation
- Alarm Rationalization Studies
- Quantitative Risk Assessment (QRA)
- Reliability, Availability & Maintainability (RAM) Studies
- Project HSE (PHSER) & Constructability Reviews
- HSECES, Performance Standards & Written Scheme of Examination
- Value Engineering Studies
- Process Engineering Design, Verification & Training
- Project Risk Assessment & Management

Recent Employment History:

Employer	Location	Title	From	To
PetroRisk	Abu Dhabi	Principal Consultant	2013	Current
Vectra	Abu Dhabi	Principal Consultant	2010	2013
Schlumberger	London	Senior Expert (Process Safety)	2009	2010
Simon Carves	Manchester	Principal Engineer (Process Safety)	2008	2009

Please see below for complete employment history & professional experience.

Employers Brief Description & Professional Experience:

2013 – Current

Principal Consultant

PetroRisk Middle East – Abu Dhabi, UAE

HAZID, ENVID, OHID, HAZOP & SIL Studies

- Chairman HAZOP & SIL workshops for DUQM Refinery Project, Oman. EPC Contractor – TR Engineering. The workshop covered Hydrogen Production, Hydrocracker and Sulphur Recovery Units. The technology licensors from Chevron Lummus Global and Fluor USA participated in the workshop. The workshop was held from 5th Nov to 26th Jan 2019 with a break in Dec 2018 at Técnicas Reunidas Engineering Office in Madrid, Spain.

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- Chairman HAZOP & SIL workshops for ADNOC Refining Crude Flexibility Project. Contractor – Samsung Engineering. The workshop was held from 1st Oct to 31st Oct 2018 at Samsung Engineering Office in Seoul, Korea.
- Chairman HAZOP & SIL workshops for KOC EF2017 Fuel Supply System to Nuwaiseeb Power Station. EPC Contractor – Wood. The workshop was held at Wood Office in London, UK from 24th to 28th Sept 2018.
- Chairman HAZOP workshop for FEED Services for ADNOC Gas Processing Ruwais Capacity Enhancement of NGL Trains 1, 2, 3 & 4. Contractor – WorleyParsons. HSEIA Consultant – DOME. The workshop was held from 16th to 18th July 2018 in Abu Dhabi.
- Chairman HAZOP & SIL workshops for Kuwait Oil Company's GC-32 New Gathering Centre for SEK Project. The technical representatives from MAN Turbomachinery, Germany and BS&B, Houston, USA participated in the workshop. The workshops were facilitated as an associate of Cholamandalam MS Risk Services. The workshop was held at Petrofac office in Sharjah, UAE from 8th to 11th April 2018.
- Chairman HAZOP, SIL & Alarm Rationalization studies for Gas-to-Liquid (GTL) Project. The workshop was held at Hyundai office in Seoul, Korea from 29th Nov to 22nd Dec 2017.
- Chairman HAZID and HAZOP workshops for ZADCO FEED for Crude Oil Export from ZIRKU to Onshore. Team members were from ZADCO, ADMA & TAKREER. FEED Contractor – Technip. The workshop was held in Abu Dhabi between 30th July to 3rd Aug 2017.
- Chairman HAZOP workshop for Pak-Arab Pipeline Company Limited (PAPCO) White Oil Pipeline Mogas Project. Contractor – Descon. The workshop was held from 11th to 16th Sept 2017 at Descon Office, Lahore.
- Chairman HAZOP workshop for Pak-Arab Refinery (PARCO) Revamp Project. The modifications in Crude Distillation, Distillate/Unionfining/DHDS, LPG Merox Gas Concentration, Naphtha Hydrotreating, platforming and new Isomerase and Crude Oil Tanks were HAZOPed. Honeywell/UOP's Process Specialists from USA and UK participated in the workshop along with PARCO engineers. EPC Contractor – Honeywell / UOP. The workshop was held from 12th to 21st July 2017 at PARCO plant site.
- Chairman HAZID, ENVID, Inherently Safer Design (ISD) workshop for KOC Fuel Supply System (Crude oil, LSFO, Fuel Gas & Gas Oil) from Zour to Nuwaiseeb Thermal Power Station. The scope included Pumping & Metering Station. The workshop was held at AMEC Foster Wheeler office in London in the first week of July 2017.
- Chairman SIL Assessment workshop of Kuwait Oil Company (KOC) GC-24 Upgrade to handle 70% Water Cut in Crude and Capacity Increase to 215 MBOPD Project. FEED Contractor – Amec Foster Wheeler. The workshop was held in London in Aug 2016.
- Chairman HAZOP & SIL Assessment for Kuwait National Petroleum Company (KNPC) Al-Zour Oil Refinery Project. The workshop was held at Fluor office in Amsterdam in May 2016. EPC Contractor – Fluor, Daewoo and Hyundai Heavy Industries (FDH Joint Venture).
- Chairman HAZOP & SIL Assessment for SCOP Karbala Refinery Project, Iraq. EPC Contractors – SK Engineering, GS Construction & Hyundai. The workshops were facilitated as an associate of DNV GL, Seoul, South Korea. The workshop was held in Seoul during May-June 2015.
- Chairman HAZOP workshop for BGC Rehabilitation of Iraq South Gas Facilities – West Qurna Gas Interface Facilities Project. HAZOP team members were from Shell, ExxonMobil and State Company for Oil Projects (SCOP), Iraq. Contractor – WorleyParsons.
- Chairman HAZOP workshop for Oil Storage Terminal Project – KAFZA II, Khor Al Zubair (KAFZA), Iraq. Team members were from British Petroleum, UK and Chemietech. EPC Contractor – SKA Energy.

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- Chairman HAZOP study for PARCO Refinery – Honeywell/ UOPs PENEX Isomerisation and PSA Units were HAZOPed. Honeywell/ UOPs specialists participated in the workshop. Contractor – ENAR Petrotech.
- Chairman HAZOP workshop for Jet A-1 Fuel Farm & Fuel Hydrant System for the new King Abdulaziz International Airport, Jeddah, Saudi Arabia.
- Chairman HAZID & HAZOP workshops for ADMA-OPCO Zakum Oil Lines Replacement Project (Phase I). Contractor – NPCC.
- Chairman HAZOP & SIL Assessment workshop for QP Domestic Supply of Butane from NGL Complex to QP Refinery. Contractor – Mott MacDonald.
- Chairman HAZOP & SIL Assessment workshops for QP FEED for Hamad International Airport Jet A1 Supply & FEED for Strategic Petroleum Products Storage Facility Phase 1 at Ras Laffan Industrial City. Contractor – WorleyParsons.
- Chairman SIL Assessment for QP FEED for New Crude Oil Storage Tank and Associated Facilities at Halul.
- Chairman SIL Assessment of Al Hosn, Shah Gas Development Program GG12 Tie-in of 12 Wells to the Gas Gathering System Project. Contractor – Chiyoda CCC Engg. Ltd.
- Chairman HAZOP for ADMA-OPCO EPC for 4 New Gas Injectors Project. Contractor – McDermott.
- Chairman HAZOP for ZADCO Seventh Crude Oil Storage Tank at Zirku Island.
- Chairman HAZOP of BAPCO Sulphur Recovery Unit #3 Condensate System Modification. Contractor – Technip.
- Chairman HAZID & SIL Assessment workshops for QP Expansion of Fuel Gas & ethane Headers at Ras Laffan Industrial City. Contractor – TR Engineering.
- Chairman SIL Assessment for RasGas LNG Trains during 3-weeks long workshop held in Al-Khor, Qatar in Nov 2013. Safety Instrumented Functions count was 650. Contractor - Qatar Kentz/CGC.
- Chairman HAZOP workshop for Maersk Oil HP/LP Interface Revalidation Project.
- Chairman HAZOP workshop for Maersk Oil By-pass of ASABI-V-3401 Inlet during PVI Project.
- Chairman HAZID workshop for Maersk Oil Accommodation Rig at Offshore B-Location.
- Chairman HAZOP & SIL Assessment workshops for State Company for Oil Projects (SCOP) Iraq Crude Oil Export Pipeline Infrastructure Project Rumailah to Haditha. Contractor – SNC Lavalin.
- SIL Verification for Iraq Crude Oil Export Expansion Project (ICOEEP). Contractors – Foster Wheeler & Leighton Offshore.
- Chairman HAZID, HAZOP & SIL Assessment workshops for Qatar Petroleum Front Mounted Base (FMB) Offshore Project. Contractor – Technip.
- Chairman HAZOP workshop for Oryx GTL U50 Tempered Water Cooling System Installation for pumps seal system. Contractor – Technip.
- Chairman HAZOP workshop for Dubai Natural Gas Company (DUGAS) for their new 32000MT Butane Storage facility. Contractor – Belleli, Italy.
- Chairman for various HAZID/HAZOP workshops for Maersk Oil Qatar:
 - HAZOP for GD Seawater Coarse Filtration Upgrade
 - HAZOP for BE Platform Sea Water System modifications
 - HAZID & HAZOP of EDHTR01-4 Fuel Gas Skid Relocation & Modifications
 - HAZID for Replacement of Accommodation Containers at FA platform
 - HAZID for Removal & Installation of ABB After-coolers on AB platform
 - Pre-SIL Surge Protection HAZOP for offshore platforms D & F Locations
 - Pre-SIL HAZOP for offshore platforms B & C Locations
 - SIL Assessment for D2EVA Surge Protection
 - HAZOP for New Production Wells GD-22 / GD-37 and Water Injection Well GA-02

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- Chairman SIL Assessment for ZADCO EPC for Power Upgrade Project at Zirku Island. Contractor – ABB, Italy.
- Chairman HAZID workshop for ADMA-OPCO Zirku Island Accommodation Complex and Administration Building –SARB Package 2.
- Chairman Pre-Startup HAZOP for Initial Production (IP) at North Island/NSP and South Island/SSP Facilities for ZADCO Upper Zakum 750K Sub-Sea Pipelines, Cables, Offshore Structures & Brownfield (EPC-1) Project.
- Chairman SIL Assessment of Ethane Dryer Facilities at Yanbu NGL Plant Project of Saudi Aramco, Saudi Arabia/ Engineer – SINOPEC E&C Middle East Co. Ltd
- Chairman SIL Assessment for QP FEED for Installation of 20" Wet Gas Pipeline between KM & KS.
- Chairman HAZID workshop for QP FEED for Installation of Flammable and Toxic Gas Detectors at Ras Laffan Industrial City Buildings. Contractor – Tebodin ME.
- Chairman HAZID & HAZOP workshops for QP FEED for Installation of Firewater Pumps at Khatiyah Main and Ummbab. Contractor – Tebodin ME.
- Chairman HAZOP workshop for BGC West Qurna CGS-6 Gas Compression, Dehydration Station & Utilities. Vendor representatives from General Electric (GE) Italy, BGC and State Company for Oil Projects (SCOP), Iraq participated in the workshop. Contractor – WorleyParsons.
- Chairman SIL Assessment for OMV Condensate Stabilization Unit for Mehar GPF project. Contractor – Presson Descon (PDIL).
- Chairman HAZOP workshop for BGC Zubair Integrated Facilities (WO-13). Contractor – WorleyParsons.
- Chairman HAZOP workshop for Majnoon Slug Catcher and North Rumailah Gas Dehydration Bypass Project (WO-20). Contractor – WorleyParsons.
- Chairman HAZOP workshop for Rehabilitation of Iraq Gas Facilities Qurainat Temporary Compressors Off-Plot Piping Tie-Ins Project (WO-22). Contractor – WorleyParsons.
- Chairman SIL Assessment for ZADCO 7th Crude Oil Storage Tank Project at Zirku Island. Contractor – Belleli.
- Chairman SIL Assessment for ZADCO UZ-750 West Island & West Satellite Platform. Contractor – Technip.
- Chairman HAZOP workshop for Upgrade of Effluent Treatment Plants and existing network at Al Quoa, Wadi Al Flaie and Al Hayer areas in Al Ain, UAE. Contractor – Purewater Technology.
- Chairman HAZOP workshop for Premier Products FZC Oil & Petrochemical Storage Terminal at Hamriyah Free Zone, Sharjah, UAE.
- Chairman HAZOP Workshop for Main Gas Turbine Pumps FAO Depot which is part of the Iraq Crude Oil Export Expansion Project (ICOEEP). The team members were from SCOP/SOC (Iraq), Ruhrpumpen (Germany), Siirtec Nigi (Italy), Siemens (Sweden), PEG and Penspen (Abu Dhabi). The workshop was held in Istanbul, Turkey.
- Chairman HAZOP & SIL Assessment for Pakistan Petroleum Limited Gambat South Gas Processing Facility Train-1 (GPF-II) Project. The team members were from Exterran (UAE) and PPL. Contractor – PDIL.
- Chairman SIL Assessment for Kuwait Oil Company's New Gathering Centre, GC-29 in North Kuwait. The total number of safety instrument functions were more than 200. Contractor – Petrofac.
- Chairman HAZOP Workshop for ADCO EPC for Sahil Field Development Project (Phase 2). EPC Contractor – Descon.
- Chairman HAZID workshop for GASCO New Workshops and Civil Maintenance Facilities at Buhasa.
- Chairman HAZID workshop for GASCO New Stores for GS and SCM Divisions at Mussafah – Abu Dhabi.

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- Chairman SIL Assessment workshop for ADMA-OPCO Satah Al Razboot (SARB) Field Development Project – Package 3 EPC Works.
- Chairman HAZID, HAZOP & SIL Assessment for Kuwait Aviation Fuelling Company (KAFCO) Extension of Aviation Fuel Hydrant System at Kuwait International Airport.
- Chairman SIL Assessment workshop for Abu Dhabi Polymers Company Ltd., Petrochemical Complex at Ruwais Industrial Area, U.A.E for introduction of single site catalyst in the PE-2 unit of BOROUGE-1 plant.
- Chairman HAZOP workshop for Brooge Petroleum & Gas Investment Company FZC (BPGIC) Fujairah Oil Terminal, Phase I. Technical team members from Audex, Singapore attended the workshop. Employer's representatives were from MUC Oil & Gas Engineering Consultancy LLC.
- Chairman SIL Assessment for Vacuum Distillation of Sohar Refinery Improvement Project, Oman Refineries and Petrochemicals Company LLC, Sultanate of Oman.
- Chairman Pre-Startup HAZOP for TAKREER EPC Works for Construction of Jetty at Hamriyah Free Zone, UAE. Engineering - Tebodin Middle East Ltd & ATKINS. Contractor – Archirodon.
- Chairman HAZOP workshop for ADSSC Phase 4 Network and WWTP Capacity Enhancement in Madinat Zayed. Team members from Dorsch Gruppe DC, ILF, ADSSC & Purewater attended the workshop.
- Chairman SIL Assessment / Safety Requirement Specifications / SIL Verification for ADCO EPC ASAB FFD Project Flare Modifications Project. EPC Contractor – Petrofac.
- Chairman HAZOP workshop for Pakistan Petroleum Limited Gambat-III Gas Processing Plant. EPC Contractor – Spec Pro, Dubai, UAE.
- Chairman SIL Assessment workshop for QP FEED for Fiscal Metering Facilities for PS-2 /3 Crude Oil at Halul and QP FEED for Produced Water Disposal System at Halul. FEED Contractor – Mott MacDonald, Abu Dhabi.
- Chairman HAZID, ENVID & HAZOP workshops for Gazprom Neft Badra BV EPC for Water Supply System in Badra, Iraq. EPC Contractor – Al Bilal, Dubai.
- Chairman for HAZID/ ENVID/ OHID for ADCO EPC Bab Habshan 1 Development Project (Phase I) - VO No.4 (Phase II) Project.
- Chairman HAZOP workshop for ADCO EPC for Replacement of Air Compressors in Gas Facilities at RMS 1 to 5 and Replacement of Instrument at 51 OGD Wells. EPC Contractor – Fortune Engineering & Energy Services, Abu Dhabi, UAE.
- Chairman HAZOP workshop for Jaheziya Development Program. Lead Design Consultant – Dar Al Handasah, Abu Dhabi, UAE.
- Chairman SIL Assessment for ADCO EPC for Replacement of Air Compressors in Gas Facilities at RMS 1 TO 5 & Replacement of Instrumentation on 51 OGD –II Wells Project. Contractor – Fortune.
- Chairman HAZOP workshop for Dubai Municipality Jebel Ali Sewage Treatment Plant, Phase 2. Contractor – Six Construction and L&T Joint Venture. The workshop was held from 22nd to 26th April 2018 at Project Site Office, Jebel Ali, UAE.

Control HAZOP (CHAZOP)

- Chairman CHAZOP workshop for Public Works Authority Al-Shamal Sewerage Treatment Project, Doha, Qatar. EPC Contractor – Larsen & Toubro.
- Chairman CHAZOP workshop for Public Works Authority Industrial Area Sewage Treatment Facilities Second Phase (2B) Expansion Project. EPC Contractor – Six Construct.
- Chairman CHAZOP workshop for Saudi Aramco/ BAPCO Saudi Bahrain Pipeline Project, Saudi Arabia. Contractor – Saudi FAL Co. Ltd.

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Electrical System Hazard & Operability (e-HAZOP) Studies

- Chairman e-HAZOP for ADGAS LG-7 Power Generation Unit at Das Island. Contractor – CEGELEC.
- Chairman e-HAZOP for BP Iraq NV Early Power Plant Project, Rumaila Oil Field, Iraq. Contractor – China Petroleum Engineering & Construction Corporation.

Project HSE Reviews (PHSER)

- Chairman Project HSE Review (PHSER) Stage 4 for ZADCO Satah Field Facilities Development, Project No. 7218. Contractor – Galfar.
- Chairman Project HSE Review (PHSER) Stage 3 SATAH Full Field Development (STFFD) Project. Contractor – Technip.
- Chairman Project HSE Review (PHSER) Stage 4 SATAH Full Field Development (STFFD) Project. Contractor – Technip.
- Chairman Project HSE Review (PHSER) FEED Stage for SCOP's Iraq Crude Oil Export Pipelines Infrastructure Project Contractor – SNC Lavalin.
- Chairman Project HSE Review (PHSER) Stage 4 for ZADCO Replacement of Main Diesel Generators at Arzanah Power House. EPC Contractor – SICON.
- Chairman Project HSE Review (PHSER) Stage 4 for ZADCO 7th Crude Oil Storage Tank Project at Zirku Island. Contractor – Belleli.
- Chairman Project HSE Review (PHSER) Stage 2 for ADOC (Japan) FEED for Expansion Project. FEED Contractor – Mott MacDonald.
- Chairman Project HSE Review (PHSER) – Commissioning for GASCO's LNG Terminal at Ruwais.
- Chairman Project HSE Review (PHSER) - EPC for Water Supply System from Fresh Water Wells to CPF Badra in Iraq (Pre-Construction PHSER). Contractor – Al Bilal/ PL Engineering.
- Chairman Project HSE Review (PHSER) Stage 2 for Kuwait Oil Company's Jurassic Gas Facility 1 Project. The PHSER workshop was held at Fluor Office in Farnborough, UK.
- Chairman Project HSE Review (PHSER) Stage 3 & 4 for ADOC (Japan) EPC Causeway Pipelines Project. EPC Contractor – Target Engineering.
- Chairman Project HSE Review (PHSER) Stage 2 for KOC Nuwaiseeb Pipeline Project. The PHSER workshop was held at AMEC Foster Wheeler Office in London, UK.

HSECES Identification, Performance Standards & Written Scheme of Examination

- EPC Works for ZK Field WHT'S Electrification ZWSC/ZCSC Topside Electrical Works Package-A. Contractor – TUV Nord.

Reliability, Availability and Maintainability (RAM) Studies

- Qatar Petroleum - Jet A1 Fuel Intermediate Storage Tanks, Jet A1 Booster & Mainline Pumps at Hamad International Airport, Doha.

Value Engineering Studies

- Chairman for Iraq Crude Oil Export Pipeline Infrastructure Project Rumailah to Haditha Project Value Engineering workshop. Contractor – SNC Lavalin.

Design Review

- Chairman Design Review workshop for Qatar Petroleum Front Mounted Base (FMB) Offshore Project.
- Chairman QP FEED for New Crude Oil Storage Tank and Associated Facilities at Halul

SIMOPS

- ADCO EPC Tie-in Works at South East (Package B) - Contractor – Descon

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- Abu Dhabi Oil Company Limited (ADOC) – Japan FEED for Expansion Project
- Gazprom EPC Gas Export Pipeline Badra Zubaidah Republic of Iraq Project
- QP FEED for New Crude Oil Storage Tank and Associated Facilities at Halul
- ZADCO Island P6279: Satah Off Gas Compressor at Zirku Project

Constructability Review

- ADCO EPC Tie-in Works at South East (Package B) - Contractor – Descon
- GASCO Yas-Mina Zayed Gas Pipeline Existing Facilities Upgrade Project
- Chairman QP FEED for New Crude Oil Storage Tank and Associated Facilities at Halul
- Iraq Export Pipelines Infrastructure Project aimed to deliver 2.25 MMBOPD and 280 MMSCFD of fuel gas from the southern oil fields to the crude oil tank farm and pumping station at Haditha, North of Iraq

Quantitative Risk Assessment

- QRA and FRA studies for SCOP Iraq Export Pipelines Infrastructure Project which will be constructed to deliver 2.25 MMBOPD and 280 MMSCFD of fuel gas from the southern oil fields to the crude oil tank farm and pumping station at Haditha, North of Iraq.
- Pakistan Petroleum Limited ADHI LPG/NGL Recovery Plant-III Project.
- QRA Study for TAKREER Improvement of Mafrag to Ghwaifat Section No. 4B:Al Mafrag to Himeem Interchange Project – Contractor – Ghantoot Transport.
- QRA & FERA Studies for Kuwait Oil Company's Fuel Supply System to Nuwaiseeb Thermal Power Station.

2010 – 2013

Principal Consultant

Vectra Middle East Ltd – Abu Dhabi

HAZID, HAZOP & SIL Studies

- Chairman HAZOP & SIL Assessment of Group-III Base Oil Production Project of Abu Dhabi Oil and Refining Company (TAKREER) held during Sep-Oct 2011 at Hyundai office in Seoul, Korea. Vendor representatives from Borsig (Germany), Mann-Turbo (Germany), General Electric / Nuovo Pignone (Italy), I.T.T. (Italy) and UOP (France), Neste Jacobs (Finland) and ExxonMobil (USA) participated in HAZOP & SIL workshops / EPC – Hyundai Engineering, Korea
- Chairman SIL Assessment & Verification of Crude Gathering Facilities - Safaniya Phase I Project of Saudi Aramco, Saudi Arabia / EPC – J Ray McDermott.
- Chairman HAZOP and SIL Assessment of Petrobras FLNG Feed Project. The study was conducted in Chiyoda Corporation's office in Yokohama, Japan during July & Aug 2010. Team members were from Petrobras (Brazil), Repsol (Spain), and SBM (Netherlands) / Contractor – Chiyoda Corporation (Japan).
- Chairman HAZOP & SIL Assessment of ADNOC Distribution/TAKREER's New Oil Terminal at Hamriyah Free Zone, Sharjah. The terminal will be utilized for the storage and distribution of petroleum products Gas Oil, Unleaded Gasoline and Jet A-1 in the Northern Emirates. The workshop was held at SINOPEC office in Beijing, China in Nov 2012.
- Chairman HAZOP & SIL Assessment & SIL Verification of Iraq Crude Oil Expansion Project, Iraq Southern Oil Company / Contractors Leighton, Foster Wheeler & Mott MacDonald. The Workshop was held in Kuala Lumpur in May 2011
- Chairman HAZOP & SIL Assessment of INPEX Masela FLNG Project. The workshop was held in Jakarta, Indonesia during Sept-Oct 2013. Feed Contractor was JGC.
- Chairman HAZOP of Rumaila Oilfield Development Project, British Petroleum / China National Petroleum Corporation & Iraq State Oil Company, Iraq / Contractor - Nama Mott MacDonald

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- Chairman HAZOP of FCP Offsite Well Cluster-1 Garraf Operations, Iraq. Client – Petronas Carigali Iraq Holding BV / Contractor – SPEC Pro, UAE
- Chairman HAZID workshop of Iraq Ministry of Oil/Joint Management Committee Export Infrastructure Crude / Fuel Gas Pipelines / Facilities Project which will export crude oil to Syria & Turkey. Contractor was SNC-Lavalin.
- Chairman SIL Assessment workshop for Iraqi Oil Export Pipeline Badra-Gharraf (Phase I) Project. Contractor - China Petroleum Pipeline Bureau.
- Chairman HAZID workshop for State Company for Oil Projects (SCOP) Iraq Export Pipelines Infrastructure Project which will transport dry gas from Basra to Baiji. The main components of the project include compressor stations, block valve stations and associated facilities for dry gas take-off to specific consumers. Contractor – SNC Lavalin.
- Chairman HAZID, HAZOP & SIL workshops for ZADCO/ADMA-OPCO Upper Zakum Field Development (UZFD) project which is aimed at achieving target oil production plateau rate of 750 MBD from the UZ field. EPC-1 contractor – Technip, UAE.
- Chairman HAZID & HAZOP workshops for ADMA-OPCO Zakum Water Injection Topside Piping and Subsea Pipeline Replacement Project. Contractor - Technip.
- Chairman SIL Assessment & Verification of LPG, Diesel & Gasoline Unloading, Storage & Transfer Facility, Ras Laffan, Qatar Petroleum, Qatar / EPC – Tebodin ME.
- Chairman SIL Assessment of NGV Filling Stations, GASCO, UAE / Contractor – QEnergy, UAE.
- Chairman SIL Assessment of LPG Vaporizers, Qatar Petroleum / EPC – Tebodin ME
- Chairman SIL Assessment of Third Party Gas Receiving Project, Dolphin Energy, Doha, Qatar / Contractor – Worley Parsons, Qatar
- Chairman SIL Assessment of Bahrain Field Development Associated Gas Expansion Project- Phase I, Tatweer Petroleum, Bahrain / EPC – Worley Parsons, UAE.
- Chairman SIL Assessment of Fire Training Project, GASCO, UAE / EPC - Penspen
- Chairman SIL Assessment of new Sour Gas Booster Compressors & TEG unit, ADOC, Japan.
- Chairman SIL Assessment of Jetty LNG Boil-off Project, Qatar Gas, Qatar / EPC – Technip, Qatar.
- Chairman SIL Assessment of QP Khuff Gas Injection Project, Qatar Petroleum, Qatar / EPC – TR Engineering, Oman.
- Chairman SIL Assessment of Pressure Regulating Station, Qatar Gas Group, Qatar
- Chairman SIL Assessment of Habshan Direct Depressuring (HDD-1) Project, GASCO, UAE / Contractor – Nama Mott MacDonald, UAE.
- Chairman SIL Assessment of Upgrade of the Drainage Network at QP Refinery, Mesaieed project / Contractor – Fernas Construction Company
- Chairman HAZOP and SIL Assessment of General Electric Gas Turbine package, Ministry of Energy & Industry, Turkmenistan / Contractor – Petrofac Emirates. Vendor representatives from General Electric, France participated in the SIL workshop.
- Chairman SIL Assessment using LOPA for Qatar Petroleum Automation Upgrade Project for KMDS, KNDS & KSDS Gas Plants. Contractor was Yokogawa.
- Chairman SIL Verification of Abu Dhabi Crude Oil Pipeline (ADCOP) project. The project will facilitate the transfer of crude oil from Habshan production facilities to the Fujairah main oil terminal (MOT) on the East coast of the UAE. Contractor was Penspen.
- Chairman LOPA & Cost Benefit Analysis of proposed ESDV loop to protect against GTL Naphtha leakage & fire case for GTL Oryx, Qatar. Contractor - WorleyParsons.
- Chairman HAZOP of Modifications to Pearl Platform, Qatar SHELL GTL / Contractor – Technip.
- Chairman HAZOP of Diversion of Acid Gas Project, GASCO, UAE
- Chairman HAZOP of Habshan Direct Depressurizing Project (HDD-1), GASCO, UAE / Contractor - NAMA Mott MacDonald

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- Chairman HAZOP of EPIC of Sweet Fuel Gas Supply to Dukhan Consumers (SFGSDC), Qatar Petroleum, Qatar / EPC – Black Cat Construction, Qatar
- Chairman HAZOP of Replacement of NGL Pipeline Network, Bu-Hasa, GASCO, UAE
- Chairman HAZOP of LPG Vaporizers, Qatar Petroleum, Qatar / EPC – Tebodin ME
- Chairman HAZOP of QP Mesaieed Refinery WWTP Up-gradation & Expansion Project, Qatar Petroleum, Qatar / EPC – Worley Parsons, Qatar.
- Chairman HAZOP of QP Halul Island Drain System Project, Qatar Petroleum, Qatar
- Chairman HAZOP of Re-routing of inter-Refineries Pipelines Project, TAKREER, UAE / Contractor – Alsa Engineering, UAE
- Chairman HAZOP of Shams Synthetic Natural Gas Plant, Sorough, UAE
- Chairman HAZOP of Offshore North Field Alpha Platform Modifications, Qatar Petroleum, Qatar / Contractor – Worley Parsons, Qatar
- Chairman HAZOP of Oily Water Effluent project, Dukhan field, Qatar Petroleum
- Chairman HAZOP of QP Mesaieed Refinery Waste Water Treatment Plant HAZOP / Contractor – Worley Parsons, Qatar
- Chairman HAZOP of Gas Dehydration Unit for Bahrain Field Development Project, Tatweer Petroleum, Bahrain. The vendor was BS&B from USA / Contractor – Worley Parsons, UAE
- Chairman HAZOP of Low & High Pressure Compressors for Bahrain Field Development Project, Tatweer Petroleum, Bahrain. The vendor representatives were from Enerflex, Canada / Contractor – WorleyParsons, UAE
- Led Wellhead Over-pressure Reliability Study for ADCO Full Field Development Project / Contractor – Petrofac, UAE.
- Chairman HAZOP of Flare System, Tatweer Petroleum, Bahrain
- Chairman HAZOP of Produced Water Phase 2, Qatar Petroleum, Qatar / EPC Contractor – Black Cat Construction, Qatar
- Chairman HAZOP of Offshore De-mothballing & Debottlenecking Project of Abu Dhabi Marine Operating Company (ADMA-OPCO) at Zakum Central Super Complex (ZCSC) and Zakum West Super Complex (ZWSC).
- Chairman HAZOP of Fire Training Project, GASCO, UAE / Contractor - Penspen
- Chairman HAZOP of QP Khuff Gas Injection Project, Qatar Petroleum, Qatar / EPC – TR Engineering, Oman
- Chairman HAZOP of Re-Engineering of QP Fire Water System PS-2 & 3 / Contractor – Worley Parsons, Qatar
- Chairman HAZOP of Pressure Regulating Station, Qatar Gas Group, Qatar / Contractor – Qatar Gas Group
- Chairman HAZOP of Habshan Direct Depressuring (HDD-1 R) Project, GASCO, UAE / Contractor – NAMA Mott MacDonald.
- Chairman HAZOP of Upgrade of the Drainage Network at QP Refinery, Mesaieed project / Contractor – Fernas Construction Company
- Chairman HAZOP of QP Recycle Compressor Upgrade Project at ARAB-D Plant Dukhan / Contractor – Black Cat Engineering & Construction
- Chairman HAZOP of Gas Turbines & Diesel Treatment Package. Client - TOTAL / Contractor - Technip. Vendor representatives from Rolls Royce, USA and GEA, Germany participated
- Chairman HAZOP & CHAZOP (Instrumentation & Control HAZOP) of Doha South Waste Water Treatment Plant, Phase II. Client – Public Works Authority, Qatar and Contractors were, ITT(UK), KEO International Consultants and Consortium Larsen & Toubro-Galfar
- Chairman HAZOP of Pakistan Mehar Gas Development Project. Client Petronas/OMV & EPC Contractor – SPEC Pro, UAE.
- Chairman HAZOP of Yemen LNG Project. Client - Safer Exploration and Production Operations Company (SEPOC), TOTAL & EPC Contractor – Technip

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- Chairman HAZOP of new Asphalt Blowing Unit for PARCO Refinery, Multan, Pakistan.
- Chairman HAZOP of Gas Intake and Pressure Letdown System of CNG Stations for ADNOC Distribution. Contractor was Bauer Kompressoren GmbH, Germany.
- Chairman HAZOP & SIL Assessment of Produced Water Treatment Plant, ZADCO Satah Full Field Development Project. Contractor was Galfar Engg. & Construction. Vendor representatives from FLSmidth, UK participated in the workshops.
- Chairman HAZID of Synthetic Natural Gas Project, GASCO, UAE / Contractor – Sergas, UAE.
- Chairman HAZID & HAZOP of ZADCO 42" NMOL Project / EPC Contractor – NPCC
- Chairman HAZID of LNG Terminal Project of Pakistan Gasport / EPC Contractor – Halcrow, UK
- Chairman HAZID & HAZOP workshops for new air compressors at QP offshore production stations at Maydan, Mahzam & Bul Hanine. EPC contractor was WorleyParsons.
- Chairman HAZID & HAZOP workshops for QP NGL Topside & Riser Modification Project / Contractors were DOPET & Technip, Qatar.
- Chairman HAZOP & SIL Assessment of ADCO's Bab Habshan Development Phase 1 Feed Project / Contractor was CH2M HILL / Veco Engineering, UAE.
- Chairman HAZID workshop for ADCO Bab Habshan Development Phase-I. Contractor – Petrofac.
- Chairman HAZID & HAZOP workshops for Al-Kafji Joint Operation (KJO), a joint venture between Saudi Aramco and Kuwait Gulf Oil Company (KGOC), Pipeline Project at Al-Hout Oilfields in the divided area between Saudi Arabia and Kuwait. Feed Contractor was Technip.
- Chairman HAZOP workshop for GEO Energy Gas Preparation Units at Balgymbaeva & Makat, Kazakhstan. Contractor – SPEC.
- Chairman HAZOP workshop for QP Water Supply Facilities to Dukhan Concession Area. Contractor – KEO, Qatar.
- Chairman HAZOP workshop for Five Sustainability Projects of Oryx GTL, Qatar. Contractor – WorleyParsons.
- Chairman HAZID workshop for GASCO Habshan Acid Gas Flare Recovery (HAGFR) Project. EPC Contractor – DESCON.
- Chairman HAZID, HAZOP & SIL workshops for Qatar Petroleum Additional After-cooler for Recycle Compressor in ERU, Dukhan project. Contractor – Technip.
- Chairman HAZID, HAZOP & SIL workshops for Kuwait Aviation Fuelling Company (KAFCO) Jet Fuel Storage & Distribution Project for new passenger terminals at Kuwait International Airport. Contractor – Penspen.
- Chairman HAZOP workshop for Ammonia Recovery & Ammonia Flare System of Qatar Fertiliser Company. Contractor – Black Cat Construction.
- SIL Verification of Safety Instrumented System of ADMA-OPCO Zakum Water Injection Project Capacity Upgrade Project. Contractor - J Ray McDermott.
- Chairman HAZID workshop for QP Dissipation Array System for PS/2 and PS/3 Offshore platforms. Contractor – Technip.
- Chairman SIL Assessment Workshop for ADMA-OPCO Additional 100MBD ZWSC Modification Project. Contractors - NPCC & WorleyParsons.
- Chairman HAZOP & SIL Assessment for Oryx GTL Unit 40 Third Coalescer & Unit 30 Gas Primary Filter Backflush Projects.
- Chairman HAZOP for Tanker Reception Facility at Doha West STW old plant. Client was Public Works Authority, Doha, Qatar and Contractor was Metito. Consultant representatives from NIPPON KOEI Company also participated in the workshop.

PROFESSIONAL RESUME

- Chairman HAZOP for KGOC Export Gas and Condensate Facilities for Al-Khafji facility and for Kuwait facility. Representatives from Al-Khafji Joint Operations (KJO) and Kuwait Oil Company (KOC) participated in the workshops. Contractor – Technip.
- Chairman HAZOP & SIL Assessment workshops for ZADCO Gas Dehydration Unit (GDU) of Satrah Full Field Development Project. Vendor representatives from Frames Process Systems participated in the workshop. Contractor – Technip.
- Chairman HAZID, HAZOP & SIL Assessment for Dolphin Energy's Third-Party Interconnecting Facilities Project. Contractor – Technip.
- Chairman HAZOP & SIL Assessment for ZADCO's PMP Shutdown Optimization Project. Contractor – Technip.
- Chairman SIL Assessment of Nabucco Natural Gas Pipeline Project which is a joint venture of Bulgarian Energy Holding (Bulgaria); BOTAS (Turkey); MOL Group (Hungary); OMV Gas & Power (Austria); RWE Supply & Trading (Germany) and Transgaz S.A. (Romania). The project constitutes a dedicated gas transit and transportation pipeline from Turkey to Austria via Bulgaria, Romania and Hungary. Contractor – WorleyParsons.
- Chairman HAZOP workshop for ADNOC Distribution's CNG Stations Phase II Project. The CNG stations will be installed all across UAE. Compressor vendor representatives from Bauer, Germany also participated in the workshop.
- Chairman HAZID & HAZOP workshops for ADNEC SNG Plant for Capital Centre. Contractor – Q-Energy (Lootah BC Gas LLC).
- Chairman HAZOP workshop for ZADCO's Electrical Submersible Pumps at UAD Wellhead platforms WHPS-01, 02 & 11 Project. Contractor – Tebodin.
- Chairman HAZOP of GASCO's ASAB Compression Units 191 & 291 operational modes.
- Chairman HAZID & HAZOP workshops for QP's Dewatering & Fiscal metering facilities Project at Halul Island. Contractor - WorleyParsons.
- Chairman HAZID & HAZOP workshops for TOTAL's New Sampling Drums Project for Offshore platforms at Al Khalij Field.
- Chairman HAZID workshop for QP Continuous Emission Monitoring System (CEMS) Project in Dukhan Plant. Contractor – Black Cat
- Chairman HAZOP workshop for Oryx GTL's Deluge System Automation Project. Contractor – Black Cat
- Chairman HAZOP & SIL Assessment workshops for QP Replacement of Hot Oil-Crude Heat Exchanger & Installation of Liquid-Liquid Coalescer Project at Dukhan.
- Chairman HAZID & HAZOP workshops for QP New Jet A1 Fuel Supply Pipeline from Mesaieed Refinery to New Doha International Airport. Contractor – Petrojet.
- Chairman HAZOP & SIL Assessment workshops for QP NGL-3 Acid Gas Removal Units 1 & 2 Amine Regenerators & associated equipment revamp project at Mesaieed. Contractor – Mott MacDonald.
- Chairman HAZOP workshop for ADGAS Train-1 & 2 Ethane Extraction Project. Contractor – Chiyoda Almana, Qatar.
- Chairman HAZOP workshop for GASCO's Refrigeration Package Vendor Modifications, Buhasa. Contractor – Toledo.
- Chairman HAZOP workshop for ADMA-OPCO's Flare Modification Project at Das Island. Contractor – Technip.

Project HSE Reviews (PHSER)

- Chairman Project HSE Review (PHSER) for GASCO's Replacement of 20" Lean Gas Pipeline from Buhasa to Bab & Bab to Thamama C in Habshan Project. Contractor – ILF Consulting Engineers.
- Chairman Project HSE Review (PHSER) for GASCO's new Butane, Propane and Paraffinic Naphtha Storage Tanks at Ruwais.
- Chairman Project HSE Review (PHSER) for GASCO's Habshan Ruwais Shuweihat Gas Pipeline Project

PROFESSIONAL RESUME

HSECES Identification, Performance Standards & Written Scheme of Examination

- ADMA-OPCO ZCSC De-mothballing Project
- GASCO Habshan Integrated Gas Development Project
- ADMA-OPCO 100 MBD DAS Facilities Upgrade Project

Reliability, Availability and Maintainability (RAM) Studies

- Qatar Petroleum Spare Heat Exchangers Project at RG Plant, Dukhan
- Qatar Petroleum Telemetry from Production Stations (PS) to Ras Abu Abu (RAA)
- Qatar Petroleum Feasibility and Concept Optimization for ETP for NGL 1, 2, 3 & 4
- GASCO Sulphur Granulation Project

2009 – 2010

Senior Expert

Schlumberger Business Consulting – United Kingdom

During his time with Schlumberger Business Consulting, Fayyaz worked for Kuwait Oil Company on the following projects:

- Failure Mode & Effects Analysis of Gathering Stations, Kuwait Oil Company
- Design verification of New Condensate Recovery Units, Kuwait Oil Company
- Site Safety Audit of Gas Gathering Centres, Kuwait Oil Company
- Competency Model development for Specialists, Senior Specialists/Advisors, KNPC

2008 – 2009

Principal Engineer (Process Safety)

Simon Carves – Cheshire, United Kingdom

Lead role in coordinating process safety activities within the company and with external clients.

HAZOP & SIL Studies

- Coordinated HAZOP closeout for various LDPE projects
- Verification of SIL Assessment calculations for various LDPE projects.

Process Safety Design

- Verification of Pressure Relief Design of PTTPE LDPE Project, Thailand
- Fire Water Network Design, Saudi Kayan Project, Saudi Arabia
- Development of Active & Passive Fire Protection Philosophy, PTTPE LDPE Project

1995 – 2008

Senior Engineer

Akzo Nobel (formerly ICI)

Fayyaz was involved with the following projects during his time with ICI:

Project Safety Reviews

- Management Safety Audit & Risk Assessment of PPL's Oil & Gas Gathering, Purification & Compression Stations at Sui, Kandhkot, Mazarani & Adhi.

Process Design Verifications

- Process Design verification of Pindori Phase-2 Natural Gas & LPG Plant Expansion Project

Value Engineering / Process Re-engineering / Energy Audits

- Led Value Engineering Studies for a number of manufacturing sites all around the world with the objective to reduce energy consumption and increase productivity;

PROFESSIONAL RESUME

- ICI Paints plant in Lahore. Personnel from ICI Paints China & Thailand participated in the study
- ICI Soda Ash Plant at Khewra
- ICI Specialty Chemicals Plant at Karachi
- Nimir Chemicals – manufacturer of Phthalic Anhydride, DOP & Fatty Acids
- Style Textile, Lahore
- 400,000 tons per annum Pure Terephthalic Acid Plant at Port Qasim.
- ICI Polyester Fiber Plant at Sheikhpura
- Packages Pulp & Paper Mill, Lahore
- National Starch Plant – Goole, Yorkshire, United Kingdom
- National Starch Plant – Hamburg, Germany
- Pre-Decorative Plant, Ammerzoden, the Netherlands
- Specialty Chemicals Plant at Palmira, Argentina
- Paints Plant at Rheinberg, Germany

Process Engineering & Operations Experience

- 44KTPA Polyester Expansion Project - Prepared process specifications and P&IDs for Ingersoll-Rand Centrifugal Air Compressors, Reverse Osmosis Water Treatment Plant, Cooling Towers and Effluent Treatment Plant for 44KTPA Polyester Expansion Project.
- Process Design for 50ktpa Soda Ash Expansion Project - Led process engineering design of the plant piping for the 50ktpa Soda Ash Expansion Project:
- Redesign of Overhead Stripping Column Distributor - Redesigned top distributor of OSC column and successfully improved the column performance.
- Debottlenecking of Packed Column - De-bottlenecked Process Distiller that enabled recovery of 500 m³/day of wastewater.
- Debottlenecked Mono-carbonating Tower intended for carbon dioxide absorption in ammoniated brine solution. Plant throughput increased by about 3%.
- De-bottlenecked Pure Terephthalic Acid Conveying System at Polyester plant with the technical assistance from Chicago Blowers, USA. The conveying rate was successfully increased by additional 10%.
- Process Design of Acrylic Emulsion Plant - Developed P&IDs and basic process design for the new Acrylic Emulsion and Alkyd Resin Plant for ICI Paints Plant.
- Gas Turbine & Waste Heat Boiler Projects - Led development of the technical & commercial feasibility and basic process design for Co-generation plant (Gas Turbine/Waste Heat Boiler).
- 10tons Polyvinyl Acetate Reactor Design - Led basic design of 10 Tons PVA Reactor and its associated equipment e.g. primary & secondary overhead condensers, catalyst and monomer feed tanks etc.
- Visited Brunner Mond's Soda Ash Plants at Northwich, Cheshire, UK for training at their plant and for exposure to their management practices.

Presentation on Modern Tools & Techniques for Energy Conservation in Germany

- Attended the Energy Workshop in Rheinberg, Germany and made a presentation on modern tools & techniques for energy reduction in manufacturing sites.

1992 – 1995

Staff Engineer

Engro Chemical

Process Engineering & Operations Experience

- Lead Process Engineer for 750KTPA Urea Plant Expansion Project. Basic Engineering was carried out at Toyo Engineering Corp's office in Chiba, Japan. Developed de-bottlenecking scope & process specifications of the following:

PROFESSIONAL RESUME

- Uprate of two CO₂ Five Stage Reciprocating Compressors
- Addition of a vertical thermosyphon reboiler in parallel for HP Decomposition
- Replacement of Low Pressure Decomposer
- Addition of Ammonia Booster Pumps, HP Carbamate Circulating Pump, HP Ammonia Pumps and Ammonia Condensers
- Bubble Cap Trays modification in HP Absorber
- Addition of third Finishing Train consisting of Falling Film Evaporator, Air Heater, Air Blower, Scrubber & Molten Urea Tank
- Lead Commissioning & Process Engineer (Urea Plant) for PAKVEN-600 Project in which second-hand Ammonia & Urea plants were purchased & relocated from USA & United Kingdom to Daharki, Pakistan. The ammonia plant was bought from Chevron and urea plant from ICI. Coordinated with commissioning teams from Exxon, Canada and from Toyo Engineering Corporation, Japan for the start-up of the plant. Inspected the plant units after the mechanical completion and signed mechanical completion certificates as owner's representative.
- Led pollution abatement study at the urea plant. Measured losses from the various vents at the plant. Optimized the operation of units and successfully reduced the ammonia losses from the plant.

1981 – 1992

Staff Engineer

Fauji Fertilizer Co. Ltd.

- Lead Process Engineer for Urea Plant Debottlenecking Project. Basic Engineering work was carried out at Snamprogetti's office in Milan, Italy. The scope of work included;
 - Preparation of material & energy balance of the plant at 2160 TPD capacity.
 - Process evaluation of Urea Reactor, HP & LP Decomposers, Heat Exchangers, Process Vessels, Control Valves, Pumps & Piping for new loads.
 - Visited Nuovo Pignone workshop in Florence, Italy for the technical meeting on uprating of High Pressure Centrifugal Compressor for CO₂.
- Received training as user of Ammonia Plant designing software at Haldor Topsoe's office in Copenhagen, Denmark during the 6-months long assignment in 1985-86. The training covered process designing of: Primary/Secondary Reformer, CO Shift Converters, Ammonia Reactor, Ammonia Synthesis Loop and Cross-flow & Shell-and-Tube Heat Exchangers
- Pre-commissioning, Commissioning & Startup Engineer for Ammonia/Urea/Utilities Complex, FFC, Goth Machhi. Worked closely with American and Italian vendors during the commissioning of Gas Turbines, Steam Boilers, Water Treatment Plant, Chromate Removal Plant, Nitrogen generation plant, Air Compressors and Waste Water Treatment. Planned and Led performance tests on Utilities units for acceptance from the contractor and signed acceptance certificates as owner's representative.
- Developed Urea Plant simulation package using Fortran-77

Experience as a Trainer

Developed & conducted courses on the following topics:

- Hazard Study Leader's Course (Duration: 5 days)
- Manufacturing Excellence Awareness (Duration: 2 days)
- Orientation Course on Engineering Applications (Duration: 1 day)
- Managing Innovation Workshop (Duration: 2 days)
- Creative Problem Solving (Duration: 1 day)

PROFESSIONAL RESUME

International Consultancy Experience

Travelled and completed consultancy projects in the following countries in the last 10 years:

Argentina, Bahrain, China, Germany, Indonesia, Japan, Kuwait, Malaysia, Netherlands, Oman, Pakistan, Qatar, Saudi Arabia, Spain, South Korea, Turkey, United Arab Emirates and United Kingdom.

LinkedIn Profile

<https://www.linkedin.com/in/fayyaz-moazzam-a0b5302/>

Contact Details

e-mail: fayyaz.moazzam@petrorisk.com

Mobile: +971 56 1273688



Certificate / Certificat Zertifikat / 認証

CFSE 130626 003

exida Certification hereby confirms that:

Fayyaz Moazzam

Has met the program requirements as defined by the CFSE
Advisory Board in the field of functional safety applied to:

Process Industry Application

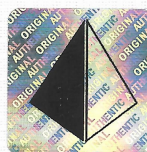
And is authorized to use the title:

Certified Functional Safety Expert

And passed the exam for the standard:
IEC 61508 & IEC 61511

A CFSE has clear obligations and duties to exercise his or
her skills toward the creation, promotion and maintenance
of functional safety.

Director



Candidate ID 13-UAE-00001

Validity:

This certificate is valid effective
May 02, 2019 and expires
May 02, 2022.

exida Certification
Sellersville, PA, USA



Form	Version	Date
CFSE001	2.00	October 2009

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CERTIFICATE

Fayyaz Moazzam

Has successfully completed the Functional Safety
Certification Program requirements for

Functional Safety Professional

In accordance with
IEC 61508:1998
IEC 61511:2003

Date issued: 2010-10-06
ID number: TP10050264
Field: Process Industry
Subject: Safety Instrumented Systems

A handwritten signature in blue ink, appearing to read 'G. Greil'.

G. Greil
Certifier

A handwritten signature in blue ink, appearing to read 'Dr. M. Houtermans'.

Dr. M. Houtermans
Trainer




Institution of Chemical Engineers

HAZOP Study, Leadership and Management

This is to Certify that


Fayyaz Moazzam

Attended the course on HAZOP Study, Leadership and Management
at IChemE, London, UK
on 2–4 September 2014



Signed Course Director





Institution of Chemical Engineers

Layer of Protection Analysis

This is to certify that

Fayyaz Moazzam

Attended the course on *Layer of Protection Analysis*
on 26–27 October 2015

Signed Course Director

R. T. Gawland

