



# Amazon



**Amazon**  
Oil Services



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June 2022

## Travel News

### BLOCKCHAIN EXPLAINED

### PIPELINE INTEGRITY

**Spice up your business travel**  
with some **BLEISURE!**

**Employee  
Profile**

Mr Mahjoub Dinari  
Electrical Eng.

## Amazon

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## Message from the General Manager

### A look ahead to the Year 2022

After two years of unprecedented events due to the global Covid-19 pandemic we note that following the vaccination rollout travel is slowly returning to normal. Unfortunately, the situation in the Ukraine has added a new dimension with the resultant impact on fuel prices. The ongoing resilience and understanding of our employees has ensured that Amazon continues to flourish and our number of employees and clients continues to increase with eleven nationalities now being employed.

We were pleased to have our ISO accreditation renewed having faced a myriad of exceptional events however with the support of our management team and employee co-operation we have been able to successfully circumvent such incidents. I would take this opportunity to thank all concerned.

The Amazon Newsletter continues to receive positive feedback and I appreciate continued input from our many readers.

Your continued support during these challenging times is most appreciated and I wish you well.

*Ahmed - Mohamed El-Ghali*

Amazon Oil Services (AOS) is a Libyan incorporated Company, with ISO 9001: 2015 accreditation. The Head Office is in Tripoli and AOS has associates worldwide.

AOS serves the Libyan Oil & Gas Sectors in the provision of an Umbrella Service for Engineering and Technical Support using highly skilled nationals and expatriates from all over the world.

Additional services and expertise offered includes Project Management, Consultancy, Procurement and Training.

Amazon ensures the Client benefits and achieves value for money where quality is of paramount importance.



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# GULAM SHERALI

## A true Legacy to be remembered

Our first Edition of the **AMAZON** Newsletter was published in January 2013 by Mr Gulam Sherali. Many of our valued readers might not be aware that sadly Gulam is no longer with us, having passed away in January 2021 after a short illness with Covid. We wanted to use this opportunity to pay tribute to him and shed light on the type of person he was.

The name Gulam Sherali might be one which you are familiar with, however what you might not be aware of is the overwhelming contribution he made to the success of **AMAZON** since the formation of the company in 2009. Gulam, who was a Certified Accountant, provided ongoing support in an advisory capacity to **AMAZON** and his experience and knowledge had been gathered through his own history working in the Oil and Gas sector.

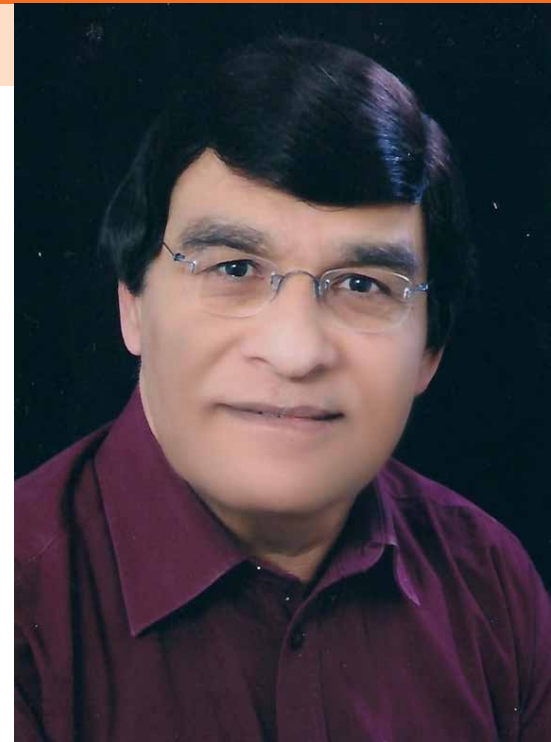
In the last 1980s he was employed by NOC in Libya, followed by employment by Teknica (UK) Ltd. Both of these companies provided him with a comprehensive knowledge of the Oil and Gas industry in Libya, which he unconditionally shared with **AMAZON**, and as a result helped the company attain ISO accreditation in May 2017.

Outside of work, Gulam was a loving Husband, Father to a son and daughter and Grandfather to 5 grandchildren, who were the light of his life. He was an avid cricket player, having played since his childhood, and in his later years he ensured that as soon as the cricket season started in May, you would not see him on the weekends until it was dark. This love and passion for the game kept him fit and healthy, and at 68 he could outrun players in their 20s and 30s. Many were amazed at how athletic and dedicated he was, but this was his personality. He pushed himself to his full potential and was a shining role

model to all those who knew him, but on and off the pitch.

In addition to this, he was a big fan of Manchester United, following their games when he could and even watching them play at Wembley. He loved to travel, (never during the cricket season obviously!), and had an extensive list of countries he had visited over the years, some of which included India, Malaysia, Dubai, America, Canada, Thailand and many many more. His favourite destination always seemed to be his home country of Tanzania, which he ensured he visited at least once or twice a year. Home definitely was where the heart was, and his heart always remained in his beloved Tanzania, specifically Dar-es-salaam and Zanzibar.

Without question **AMAZON** would not have achieved success without the dedicated provision of professional experience and advice from Gulam. His departure only marks the end of a chapter in our book of life; however, his legacy will continue to remain forever in the hearts of all those who knew him. During his working life, he built and maintained excellent relations with clients and peers, and to date many of those who knew him, talk about his humble, professional and kind nature, qualities which made him who he was and which he instilled in all those at **AMAZON**. Indeed, we still find ourselves asking, "What would have Gulam advised in this situation?" Such was his impact on our daily operations.



The world, **AMAZON** and his family are a lesser place without him, but we know he is with Allah and his angels, Heaven really has gained a wonderful addition.

We learn through Islam and its teachings that when an individual passes away, his book of deeds officially close. However, there are 3 exceptions, and ways in which he can still receive blessings from Earth. One is Sadaqah Jariya (known as continues charity that will benefit you long after you have left this world), second is knowledge which you have spread whilst you were alive and which continues to be beneficial, and lastly virtuous descendants who will pray for you.

We, as a company, continue to this day benefit from the knowledge Gulam enriched our lives with, and we will continue to pray for his soul to be at peace.

Constantly missed, Forever remembered and Always loved. Rest in Peace Gulam, Till we meet again.

# AMAZON TRAVEL NEWS



# 20

22 and a new year is upon us. We are two years into the Covid-19 pandemic and we hope that an end might finally be in sight. Experts say that Covid will likely lose its “pandemic” status sometime in 2022 due largely to rising global vaccination rates. Barring any major developments, “normal” post pandemic life could be on the horizon. We are aware that the previous Covid test which was mandatory for boarding a flight is now being replaced by Vaccination Certificates. However, the World Health Organisation recently warned that a dramatic drop in testing for COVID-19 has left the world blind to the virus’s continuing rampage and its potentially dangerous mutations.

In early April, the Covid Test requirement was no longer mandatory to travel to/from Libya, following this requirement having been lifted earlier for flights between Mitiga and Tunisia.

This was a positive development as the 48 hour window imposed by Libya created problems for long distance travel. Notwithstanding the time lost in Tripoli awaiting a test further

complicated if the employee arrived on an internal flight on a Thursday thus having to wait until Saturday evening or Sunday before they could travel home. The new rules will now allow our employees to travel home earlier than was previously possible.

When we became aware that Vaccination Certificates appeared to be the new norm we requested that

our employees advise us of their status which is now recorded in the [Amazon](#) bespoke database. In addition to Covid test tracking we now closely monitor contractual compliance with employee rotation cycles, and in cases wherein a contractual breach is identified we require an explanation to satisfy ISO requirements.

It is our understanding that the validity of the initial two vaccinations was 270 days. However following the requirement if the validity period had expired to have a so-called booster vaccination, a Vaccination Certificate is now classed as being up-to-date only if all three vaccinations have been acquired. At this time there is no universal definition on the validity

period of an 'up-to-date certificate' and there is a suggestion that annual booster similar to the flu injection may become the norm. Unfortunately, different countries and some airlines have different regulations so it is imperative that each employee is aware of their home destination requirements. The rapidly evolving nature of the pandemic is somewhat confusing and we find that at times it depends on who is present at the check-in desk when one travels. At all times **Amazon** and their agent ensures that any known requirements are made known when tickets are issued.

Previously required pre-flight documentation requirements are slowly being phased out as travel returns to normal however once again there is no fixed global rule at this time. Likewise, the wearing of face masks differs from country to country and in most cases is still required on flights.

The COVID-19 pandemic produced unprecedented, unimaginable devastation throughout the world. The need to self-quarantine forced many industries, including the air travel business, to grind to a halt, producing potentially irreparable consequences. We now face a perfect storm with the Russia-Ukraine crisis disturbing the global distribution of crude oil with a profound impact on travel costs. We are still seeing airlines test out the waters with gradual resumptions of their pre-COVID schedules, which means they are operating flights on particular routes at lesser frequencies than previously available.

The financial impact on company budgets has been significant as they face additional unforeseen costs directly related to Covid with the cost of Covid tests, accommodation and now increased air fares.

In late April the European Union (EU) published an update of its list of banned airlines within the European airspace with unfortunately no change concerning Libya. We still require

our employees to travel to Istanbul or Tunisia in order to connect with International Airlines. It is salient to note that flight times to/from Mitiga do not always sync with International flight times thus resulting a longer than wished for transit time in Istanbul or Tunis. Whereas there is available hotel accommodation in Istanbul Airport no such facility is available in Tunis.

In Istanbul there is a Yotel Airside and a Yotel Landside. To access the Landside facility one must be able to pass through passport control with either a nationality exemption or, a valid E-Visa. Unfortunately, certain nationalities are unable to pass through passport control so are restricted to the transit area and the Airside facility. Both hotels have different core booking times which can present us with problems depending on the arrival / departure times of flights. **Amazon** provides accommodation if the transit time between flights exceeds 8 hours after we take into account the time to check-out from arrival and check-in for the connecting flight. Due to the prevailing available flight times to/from Libya we can be faced with the possibility that this could result in a two-fold reservation being required which is unrealistic when the material occupation is 8 hours spread over two core reservation periods ! Accordingly, we would provide accommodation for one period only. Provision is available for early entry or extending ones residence on an hourly basis however this can only be achieved by the guest in making payment in person.

**Amazon (AOS)** continues to provide the most cost effective direct route possible with limited transit times. We have noted recently that employees have been requesting changes to their previously agreed issued tickets for various reasons. It is salient to note that changing a ticket following issue can prove to be a costly business due to imposed penalty costs. Whereas **Amazon (AOS)** will accommodate such requests within reason we must be pragmatic and in

some cases the employee may be liable for any additional costs incurred. Where possible, tickets should be arranged at least three weeks in advance to ensure availability and to recognise that ticket prices increase in weekly cycles regardless of demand and last minute reservations can prove costly.

We have recently faced problems with snow in Istanbul and sand storms in Libya and resultant cancelled flights compounded by unscheduled cancellation of internal desert flights however we have been able to take proactive action to ensure the least inconvenience to our employees possible. Unfortunately, international travel for some nationalities continues to present both **Amazon (AOS)** and the employee with undesirable complications. We continue to provide support and determine viable solutions to ensure unfettered travel where possible however, we have to accept that unforeseen consequences encountered in the employee's home country are beyond our control.

This pandemic, like all other pandemics before it, will end, but it is far too early to relax. With the millions of infections occurring in the world in recent and coming weeks, coupled with waning immunity and seasonal impact, it is almost a given that new COVID-19 variants will emerge. However, with strong surveillance and monitoring of new variants, high vaccination uptake and third booster doses, ventilation, affordable equitable access to antivirals, targeted testing, and shielding high-risk groups with high-quality masks and physical distancing if and when a new variant appears, we trust that a new wave would no longer require a return to the pandemic-era, population-wide lockdowns or similar measures notwithstanding the recently experienced impact on International travel.



# BLOCKCHAIN EXPLAINED

## What is a blockchain?

## How does a transaction get into the blockchain?

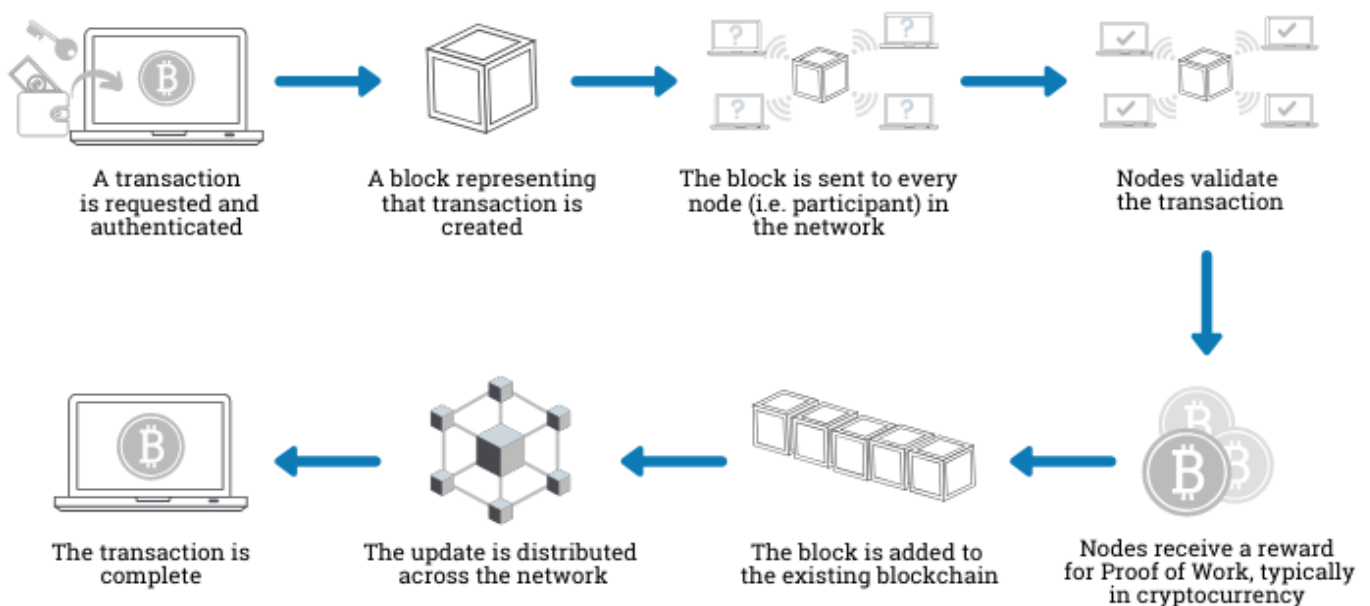
This means if one block in one chain was changed, it would be immediately apparent it had been tampered with. If hackers wanted to corrupt a blockchain system, they would have to change every block in the chain, across all of the distributed versions of the chain. Blockchains such as [Bitcoin](#) and Ethereum are constantly and continually growing as blocks are being added to the chain, which significantly adds to the security of the ledger.

### Why is there so much hype around blockchain technology?

There have been many attempts to create digital money in the past, but they have always failed. The prevailing issue is trust. If someone creates a new currency called the X dollar, how can we trust that they won't give themselves a million X dollars, or steal your X dollars for themselves?

Bitcoin was designed to solve this problem by using a specific type of database called a blockchain. Most normal databases, such as an SQL database, have someone in charge who can change the entries (e.g., giving themselves a million X dollars). Blockchain is different because nobody is in charge; it's run by the people who use it. What's more, bitcoins can't be faked, hacked or double spent – so people that own this money can trust that it has some value.

Before a transaction is added to the blockchain it must be authenticated and authorized. There are several key steps a transaction must go through before it is added to the blockchain. Today, we're going to focus on authentication using cryptographic keys, authorization via proof of work, and the more recent adoption of proof of stake protocols in later blockchain networks.



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## Authentication

The original blockchain was designed to operate without a central authority (i.e. with no bank or regulator controlling who transacts), but transactions still have to be authenticated. This is done using cryptographic keys, a string of data (like a password) that identifies a user and gives access to their “account” or “wallet” of value on the system. Each user has their own private key and a public key that everyone can see. Using them both creates a secure digital identity to authenticate the user via digital signatures and to ‘unlock’ the transaction they want to perform.

## Authorization

Once the transaction is agreed between the users, it needs to be approved, or authorized, before it is added to a block in the chain. For a public blockchain, the decision to add a transaction to the chain is made by consensus. This means that the majority of “nodes” (or computers in the network) must agree that the transaction is valid. The people who own the computers in the network are incentivized to verify transactions through rewards. This process is

known as ‘proof of work’.

## Proof of Work

Proof of Work requires the people who own the computers in the network to solve a complex mathematical problem to be able to add a block to the chain. Solving the problem is known as mining, and ‘miners’ are usually rewarded for their work in cryptocurrency. But mining isn’t easy. The mathematical problem can only be solved by trial and error and the odds of solving the problem are about 1 in 5.9 trillion. It requires substantial computing power which uses considerable amounts of energy. This means the rewards for undertaking the mining must outweigh the cost of the computers and the electricity cost of running them, as one computer alone would take years to find a solution to the mathematical problem.

## The Problem with Proof of Work

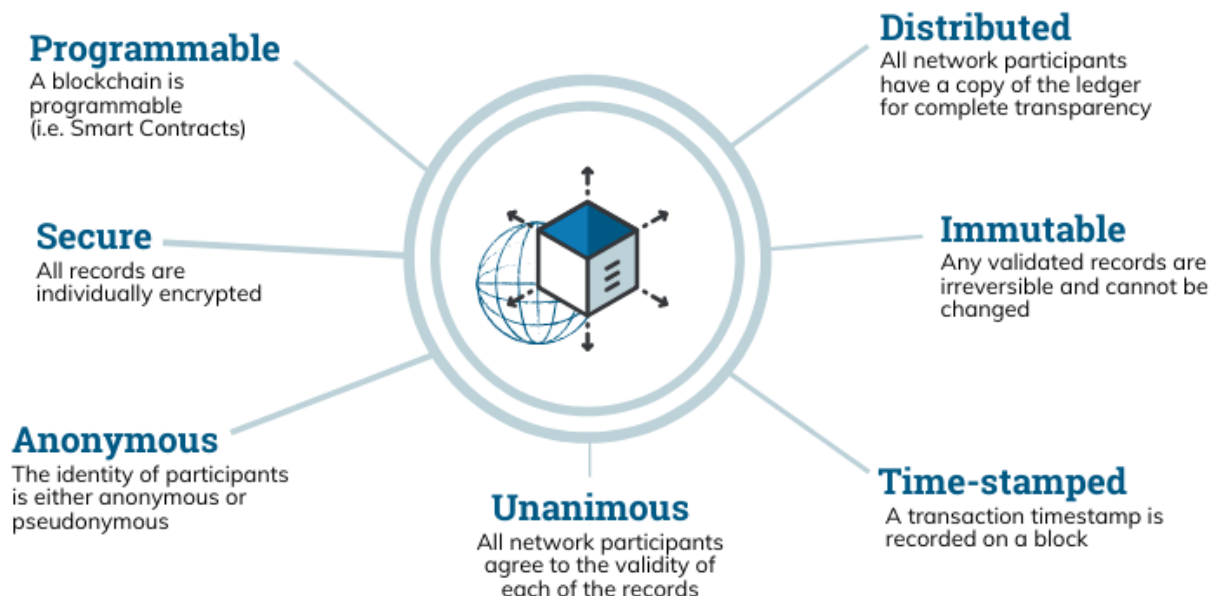
To create economies of scale, miners often pool their resources together through companies that aggregate a large group of miners. These miners then share the rewards and fees offered by the blockchain network. As

a blockchain grows, more computers join to try and solve the problem, the problem gets harder and the network gets larger, theoretically distributing the chain further and making it ever more difficult to sabotage or hack. In practice though, mining power has become concentrated in the hands of a few mining pools. These large organizations have the vast computing and electrical power now needed to maintain and grow a blockchain network based around Proof of Work validation.

## Proof of Stake

Later blockchain networks have adopted “Proof of Stake” validation consensus protocols, where participants must have a stake in the blockchain - usually by owning some of the cryptocurrency - to be in with a chance of selecting, verifying & validating transactions. This saves substantial computing power resources because no mining is required. In addition, blockchain technologies have evolved to include “Smart Contracts” which automatically execute transactions when certain conditions have been met.

# The Properties of Distributed Ledger Technology (DLT)



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# PIPELINE INTEGRITY

- By Abdalla M. Benamer

## Introduction:

*"Murphy law states that 'left to themselves, things will always go from bad to worse'"*

Pipelines are widely used in transporting large quantities of oil and gas products over long distances due to their safety, efficiency and low cost. Integrity is essential for reliable pipeline operations, for preventing expensive downtime and failures resulting in leaking or spilling oil or gas content to the environment. Pipeline integrity management is a documented set of policies, process and procedures to manage pipeline risk and cost. A pipeline integrity management program mainly consists of three major steps: defect detection and identification, defect growth prediction, and risk-based management.

## Why Pipeline Integrity is important:

Pipeline integrity is ensuring a pipeline is safe and secure. It starts with a good design, construction and Operation, but it involves all of a pipeline's inspection, management and maintenance. Initiating appropriate Integrity Management system is the first step, that shall be

- Effective
- Economical
- User-friendly
- Visible
- Inclusive
- Appealing

Typical Management System is shown in Fig-1

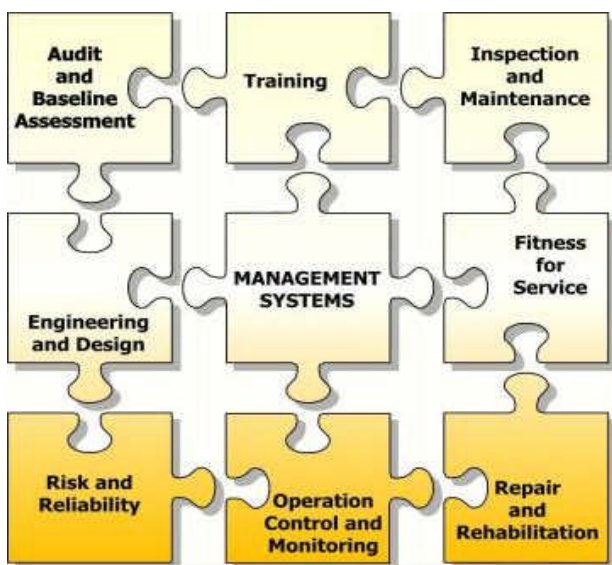


Fig-1

## Risk Phases and Risk Management:

Generally, Pipe line goes through 3 different risk phases as stated below

- Startup : Improper material, Design
- Continuos : Third party
- During wear : Corrosion, Crack etc.

Elimination of associated risk in different phases with suitable mitigation can be achieved by implementing suitable Risk Management system. Few important elements are discussed below.

## Risk Management elements:

1- Risk Assessment and Quantification (Fig-2).

Risk Management begins with the identification of risk and the risk threshold. For risks that are judged acceptable, no mitigation may be required and no further action necessary. For risks considered unacceptable and therefore requiring risk mitigation, there are various mitigation categories that should be considered. Using risk grids to identify the risk associated with the pipe will help taking good and quick decision of selecting the best mitigation. (Fig.2)

		Impact →				
		Negligible	Minor	Moderate	Significant	Severe
Likelihood ↑	Very Likely	Low Med	Medium	Med Hi	High	High
	Likely	Low	Low Med	Medium	Med Hi	High
	Possible	Low	Low Med	Medium	Med Hi	Med Hi
	Unlikely	Low	Low Med	Low Med	Medium	Med Hi
	Very Unlikely	Low	Low	Low Med	Medium	Medium

Fig-2

2- Cost Benefit Analysis (Fig-3).

Undertaking a cost/benefit analysis (CBA) requires the identification and valuing of the costs and benefits of a given action to determine whether the proposed action is a cost-efficient means of accomplishing the benefits. It's important to apply Cost Benefit Analysis before selecting mitigation Strategy.



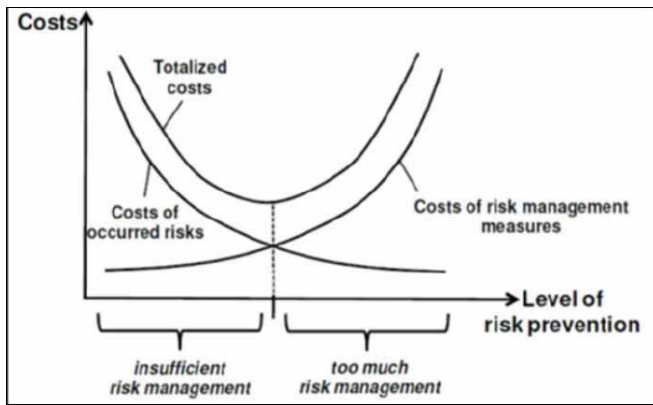


Fig-3

### 3-Risk Mitigations (Fig-4).

Risk mitigation activities fall into one or more of the following:

- Reduce the magnitude of consequence.
- Reduce the probability of failure.
- Enhance the survivability of the facility and people to the consequence.
- Mitigate the primary source of consequence.

The most practical and cost-effective risk mitigation strategy shall be developed for each item, which shall be applied in earlier stages for higher benefits.

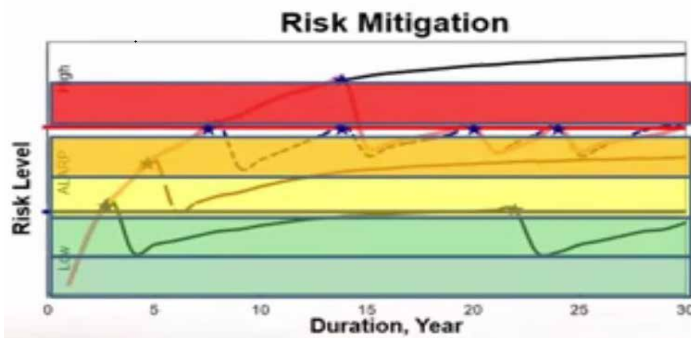


Fig-4

Timely implementation of the Risk Management will yield the below benefits

#### Benefits:

- ♦ Reduce failures by Identifying critical equipment and degradation mechanisms;
- ♦ Reduce and eliminate unnecessary inspection activities and costs;
- ♦ Optimize the maintenance and inspection schedules;
- ♦ Realign the operating models and reduce costs safely;
- ♦ Ensure compliance with industry regulation and legislation including safety case compliance;

- ♦ Reduce lifecycle costs - operating expenses and capital expenditure optimization;
- ♦ Extends turnaround intervals;
- ♦ Improve reliability and derive value from operating pipelines.;

### LESSON LEARNED

One of the Pipeline failures has been taken as Case Study and the details are given below

Pipe Size: 18"  
Distance: 31km  
Year Started: 2004  
Complete Replacement: 2022

#### Sequence:

- 1- The pipeline starts up the first production into the pipeline would have included sludge from drilling start up.
- 2- Monthly pigging was not implemented until the first 9 months.
- 3- The operating regime of the pipeline maintained at high pressure to operate in dense phase.
- 4- No biocide was introduced with water for the HPT.
- 5- No proper corrosion monitoring for internal corrosion.
- 6- No mothballing implementation during forced shut down of this pipeline as force majeure in 2004 and 2019.

#### Conclusion:

All the above 6 points reflects the lack of integrity in the 3 phases of Design, Construction & Operation



#### ABOUT THE AUTHOR

Abdalla M Benamer is a Corrosion Engineer currently working for Akakus Oil Operations in Libya. He has more than 30 years' experience in Corrosion Aspects, having started his career at SOC as a Corrosion engineer. He has published more than 20

Technical papers in all aspects of corrosion and involved in many committees related to corrosion inhibition selection.

# Spice up your **business travel** with some **BLEISURE!**



**A**s we slowly see the end of the pandemic, business travel is gradually returning.

Since travelling for work requires a lot of energy and can be tiring, adding a few extra days for leisure allows employees the chance to recharge. Trips that combine both business and leisure elements are now known as bleisure trips.

Although primarily motivated by work, bleisure travellers allocate time, sometimes by extending the duration of the trip in order to see the attractions and participate in leisure activities.

These days, technology makes it possible for work to be done anywhere. As a manager checks their emails at a restaurant in Tokyo and a developer codes software on a beach in Bali, technology has blurred the distinction between work and play, blurring also the distinctions between

business and personal travel. This trend is growing in popularity particularly with Millennials, who tend to make the most of an opportunity by spending more time in a destination that they happen to be in. Where destinations appeal, professionals around the globe are increasingly adding days or weekends, to work trips, whether solo, with a partner, or as a family.

From the company side of things, bleisure is a way to incentivize employees to travel for work; indeed, employees are more willing to travel for business if they are given the opportunity to experience the destination they are travelling to.

For the employee, the advantage is that the company will usually pay for the flights if the extra days don't increase costs. It is not a paid vacation, however, since it is expected that employees will pay for any additional leisure expenses incurred

(meals, extra hotel days, transport and so on), as well as take vacation days if the leisure portion of the trip falls on the weekdays.

Whether you're an employer looking to use bleisure travel to incentivize a return to business travel or an employee looking to take advantage of it in future, we can help! We don't only offer flights, accommodation and airport transfers, we are also able to suggest the best attractions, transportation to and from hotels, tickets to events, as well as reservations at the best restaurants.

To conclude: Whether it's a conference in another country, or working on a project in another city, adding some leisure elements to your work trips can definitely enhance your experience. Not to mention, if you've already jumped through the COVID-19 travel hoops then why not add a few extra leisure days to further justify the effort?

Planit Travel Services Ltd. is a corporate travel management company established in Malta in 1996; servicing the Oil & Gas industry with their corporate travel requirements.

**planit**

# EMPLOYEE PROFILE



**Mr Mahjoub Dinari**

Mr. Mahjoub Dinari is a Senior responsible for Engineering and Designing of electrical systems across many different industries such as Oil & Gas, power generation, chemical and fertilizer field as well as sugar refineries. He has more than 16 years' experience in most international brands such as ABB, Siemens, Schneider, EATON and other switchgears.

He has a good software skill in ETAP, CYMGrd, CANECO, See Electrical, Autocad, Dialux (lighting calculation) with experience in Electrical database software package using ETAP:

- Load flow
- Short circuit
- Motor acceleration
- Devices Coordination
- Ground grid study
- Harmonics study
- Transformer sizing

Over the years, Mr. Mahjoub Dinari has added the following achievements to his career:

- ♦ Engineering, Onsite supervision and monitoring of installation of all major electrical components for the project "Revamping and modernization of fuel storage area for SNDP" in Tunisia in 2016 -2017.
- ♦ Design of 624MW Power Generation plant with 220KV and 400kV voltage output with General Electric.
- ♦ Engineering and commissioning of 3000MTPF Sugar Refinery in IRAQ with 02 separate TGs 12.5 MVA each with BMA Braunschweigische.
- ♦ Engineering and Technical requisition issue for procurement & technical offer evaluation for a Turbo-Generator Group "GTA" 20 MW for Groupe Chimique Tunisien

- ♦ Engineering and site survey of chemical and fertilizer projects:
  - 1000 MTPD SSP/TSP/NPK production Plants in Egypt for N-FERT
  - 1000 MTPD SSP/TSP/NPK production units in Serbia for Elixir Zorka
  - 800 MTPD Ldan. Ammonium Nitrate Plant for Dyno Nobel in Australia
  - Water Soluble Fertilizers Plant in 2008 for Zuari Rotem in India
- 400 MTPD Ldan. Ammonium Nitrate Plant revamping for Deepak in India

Mr. Mahjoub Dinari has additional experience in Management and Project Co-ordination including:

- ♦ Evaluating potential problems, technical hitches and providing solutions.
- ♦ Supervising current projects and coordinating all team members to keep workflow on track.
- ♦ Direct project correspondences by preparing and reviewing project proposals, memos, meeting minutes and emails.
- ♦ Analyze risks and opportunities during meetings.
- ♦ Communicate with clients to identify and define project requirements, scope and objectives.
- ♦ Adhere to budget by monitoring expenses and implementing cost-saving measures.

Since 2007, Mr. Dinari has worked in various multicultural asset team environments, working in India, Tunisia, South Korea, Germany, Iraq, Serbia and now in Libya where he is currently assigned to Sirte Oil as a Senior Electrical Engineer. He advises that he has had a good experience with Amazon Oil Services in supporting his travel and visa requirements, medical issues and general administrative requirements.





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- ❖ Senior Mechanical Static Engineers

*If you would like to add your CV to our database so that we can contact you once we have a suitable opportunity, please send us your CV with a cover letter to:*



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# Fourth Scientific Conference on Oil and Gas

22-23 February 2022, Ajdabiya – Libya

Amazon Oil Services had the pleasure of attending the fourth scientific Oil and Gas Conference organised by the faculty of Engineering at Ajdabiya University under the slogan of “Between Reality Challenges and Future Prospects”.



Amazon Oil Services was a major sponsor for this event, since one of our main objectives has always been to promote and support the advancement of research and development, in order to assist our clients along with the oil industry across Libya.

The conference was held over two days and in attendance were an array of professors from Libyan universities and a number of engineers in oil companies, as well as those interested in Oil, Gas and the environment.



It was an excellent opportunity to meet and discuss a wide range of issues concerning the Oil sector with a large number of other associates and participants. During the conference, 23 scientific papers in the field of oil and gas were discussed along with further opinions about legislation, economics, and the environment.



The head of the conference Mr. Ghaith Abu Jafoul explained that in the previous conferences there were several recommendations made including the establishment of an Oil Institute in the Oil Crescent Region. Thankfully an Oil Institute has now been established in this area.

It was also established that a recommendation to set up a research center dealing with topics of oil, health and the environment. The city of Ajdabiya was chosen to be its headquarters.





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