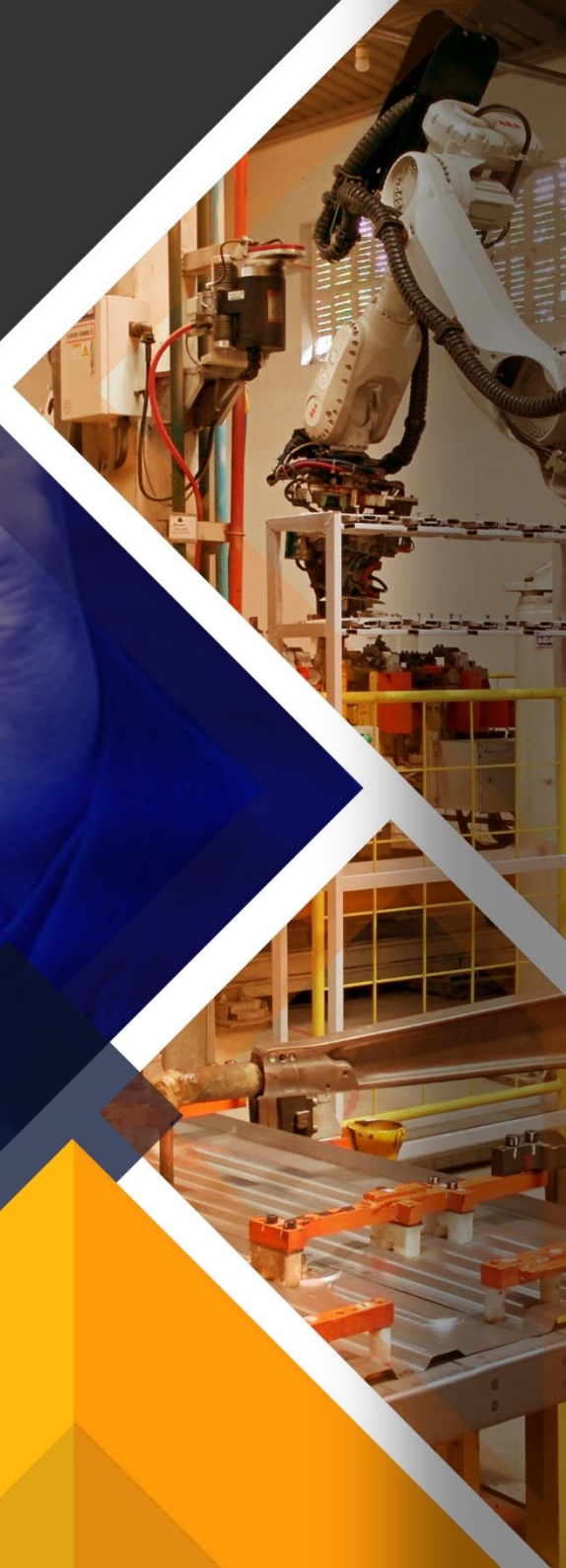


# RUCHA KALEIDOSCOPE

Rucha Engineers Pvt Ltd

August 2021 Issue # 25



25 YEARS  
AND STILL  
GROWING

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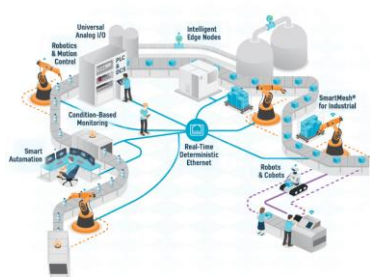




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## AWARDS, APPRECIATIONS & FELICITATIONS



### HEARTIEST CONGRATULATIONS RUCHA YANTRA LLP TEAM

ISO 9001 : 2015 certification Audit has been carried out By Mr. Praveen Saljoshi from The British Standards Institution i.e. BSI on 24<sup>th</sup> Aug 2021 at Yantra and the same is cleared through common team efforts.

We have successfully cleared this Audit and recommended For Final certification.



Congratulations to every member who was part of this Audit !





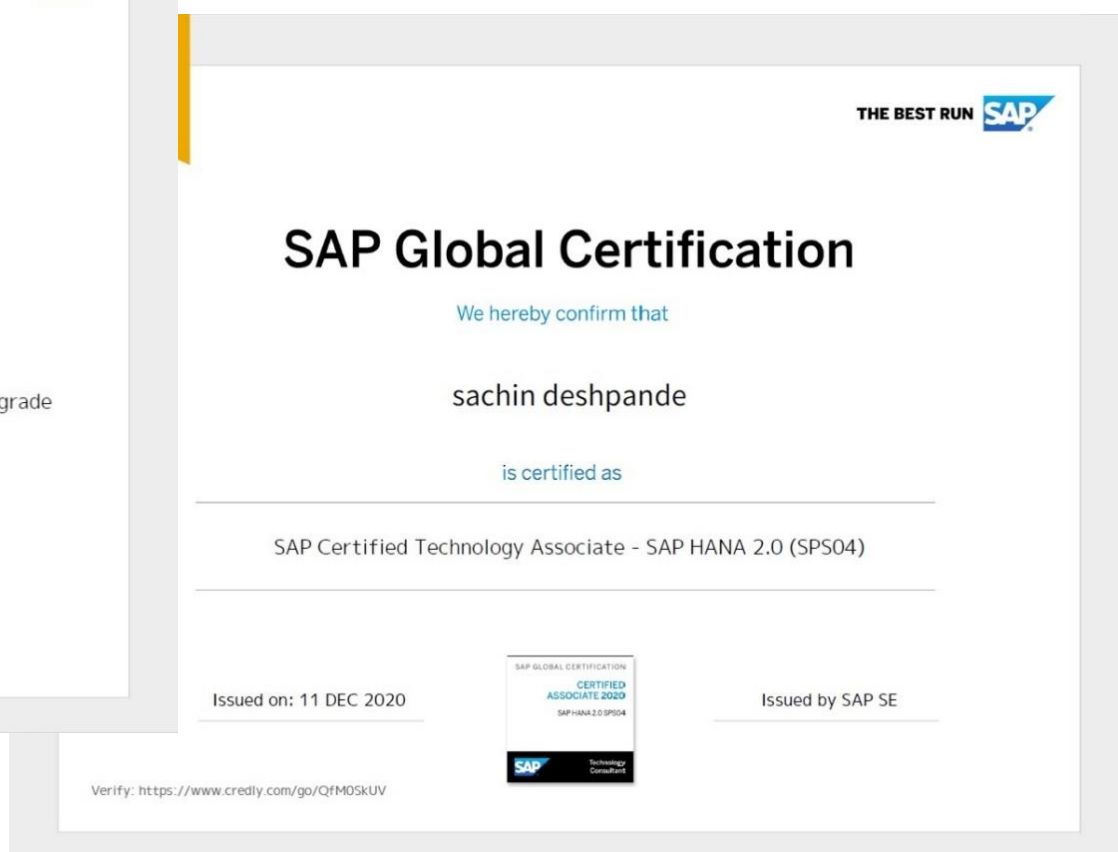
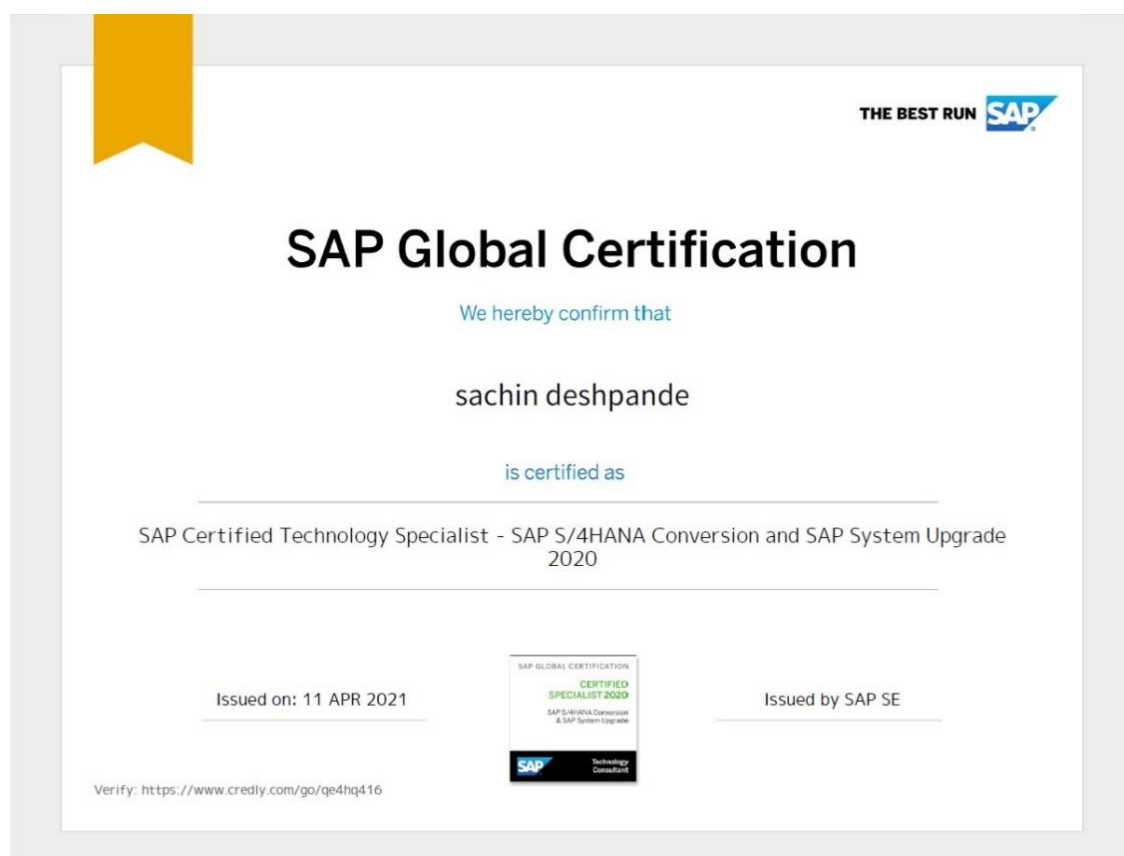
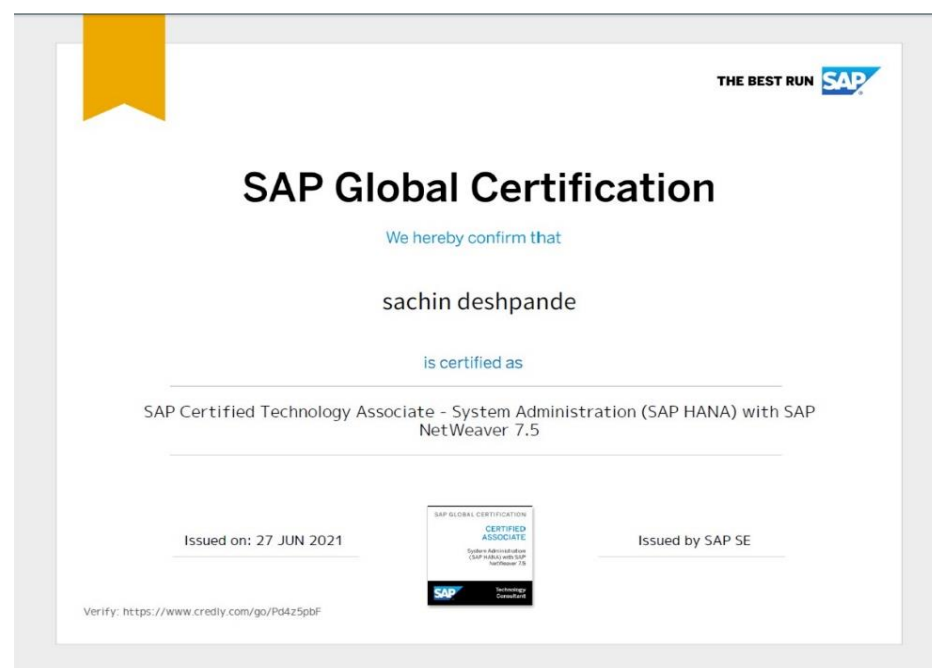


## AWARDS, APPRECIATIONS & FELICITATIONS

### HEARTIEST CONGRATULATIONS TO MR. SACHIN DESHPANDE TO BE CERTIFIED AS SAP TECHNOLOGY ASSOCIATE

We are happy to inform you all that Mr. Sachin Deshpande has qualified as **“SAP Technology Associate” – SAP HANA 2.0 (SPS04)** conducted by M/s. SAP Global on International Level. This certificate builds on the basic knowledge gained through related SAP HANA training & preferably refined by

practical experience within SAP HANA project team, whereby the participant applies the acquired knowledge practically in projects. Furthermore, the "SAP Certified Technology Associate - SAP HANA 2.0" certification exam verifies, that the candidate has the knowledge of installing SAP HANA required by the profile of SAP HANA technology consultant.





### CYBER SECURITY HIGH-RISK INDUSTRIES

Welcome to the final blog in the series on Cyber Security. In this piece, we shall look at the industries at the highest risk of cyber-attacks. Let's get right into it!

Time changes fast, technology faster, and we are forced to adapt at the quickest speed. The more we start to rely on technology, the newer challenges and

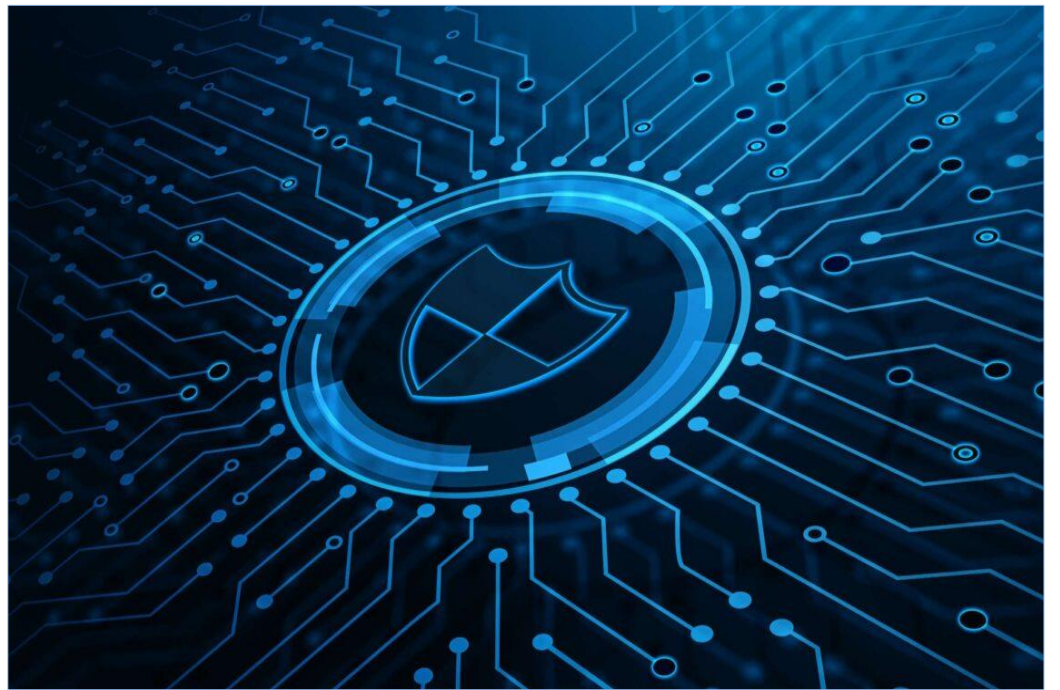
risks emerge. Cybercrimes are one such challenge. Every individual and organization that is connected to digital is always at the risk of a cyber-attack. Experts estimate that cybercrimes could potentially cost the world over US\$10.5 trillion annually by 2025.

However, specific sectors are more prone to cyber-attack than others. Let's have a look at them and the risks they face.

**Energy and Utilities :** Major utilities are now accessible online, including the power grids. Highly regulated and subject to strict compliance laws, there is excellent potential for hacktivism and cyberterrorism in the sector. Imagine the havoc if we lost the power control to a hacker. Moreover, terrorists will undoubtedly be on the lookout for such a scenario, and thus, the highest level of cyber security is a must.

The same goes for the water supply. Recently, as witnessed in Florida, USA, a major catastrophe was averted after a hacker increased the amount of sodium hydroxide being deposited in the water. Fortunately, it was resolved in time.

Energy and utilities affect almost every individual, and the impact of a cyberattack could be enormous. Therefore, proper security measures and backup plans need to be in place.





## CYBER SECURITY HIGH-RISK INDUSTRIES

### Healthcare

The healthcare sector stores critical personal and institutional data, including the financial information of individuals. Consequently, it becomes an easy target for cyber experts with criminal intentions. Ransomware attacks or data thefts for blackmailing can be a common challenge.

### Government

With critical, confidential, and sensitive information like social security numbers, finance details, addresses, and citizens' biometrics, government servers and databases are top targets for cyberattacks. The data can be manipulated, sold to enemies or terrorists. As nations get involved, the risks of worldwide impact and rising tensions increase.

The military data is even more critical and needs the highest level of cyber securities and backups.

### Small businesses

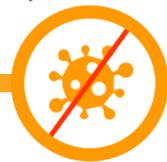
Small and medium-sized businesses are attacked more frequently than larger ones because they usually don't have the safety measures as more prominent companies have.



Usually, small businesses and industries depend upon local security systems which are not strong enough to protect the business. In the case of an attack, if customer details are compromised, the company loses the reputation and trust of its audience. So, all such businesses like retailers, job work industries, e-commerce services, etc., should take digital security more seriously as they are soft targets for cybercrimes.



## TECHNICAL BLOGS



### CYBER SECURITY HIGH-RISK INDUSTRIES

#### Financial services

This industry is a prime target for obvious reasons as money is the most attractive thing for any criminal. A recent survey revealed that one of every three financial institutions/ services had been attacked by cybercriminals.

The money, the personal details and financial data of consumers, the transactions and procedures of banking and financial organizations are all at risk of cyber-crimes. So, they must have controls to prevent illicit access of information and make sure customer and consumer information are adequately taken care of.

Safety of money and privacy and strict confidentiality of information have the most important here.

#### Education

Educational institutions are also targeted by cyber attackers/ hackers to obtain research-related data, intellectual property research, personal information of students and staff, data and records related to exams, etc.

Often, systems in such institutions are used by many employees. Passwords are shared among them frequently and not changed after use. So, the risk of direct data theft is potent too.

#### Conclusion

Records show that all the above sectors have been attacked many times in the last decade, and the loss has been irrecoverable and irreparable. So, all the organizations engaged in these sectors must invest in cyber security on priority.

Thank you for reading the blog, and we hope you liked our series on Cyber Security. Stay tuned to our [Knowledge Corner](#) interesting blogs around next-gen technologies.





## SPECIAL PROJECTS, EVENTS & AUDITS



### INDEPENDENCE DAY CELEBRATION

We have celebrated 75<sup>th</sup> Independence Day on 15<sup>th</sup> August 2021 with great enthusiasm to express gratitude towards our proud nation. All plants paid tribute to corona warriors, those at the forefront of the battle against the coronavirus pandemic, on the eve of Independence Day.







## SPECIAL PROJECTS, EVENTS & AUDITS



We have always believed in "Change is the only Constant" philosophy. Change is what keeps you updated with the modern world. Burlyfield is changing to serve you better and we are very excited to uncover our "NEW LOOK". While our promise of quality and core values remain the same, our appearance has changed to a more vibrant and approachable one.

Thank you for supporting us till now. We hope you will like our "NEW AVATAR" and keep showering your love for our products as always.



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## अनुपस्थिति एक भयानक बीमारी है!

औद्योगिक दुनिया में अनुपस्थिति एक बड़ी समस्या है जो व्यक्तिगत श्रमिकों और कर्मचारियों के साथ-साथ उद्योग को भी नुकसान पहुँचाती है। अनुपस्थिति एक गंभीर बीमारी है और यदि अनुपचारित छोड़ दिया जाए तो इसके गंभीर परिणाम हो सकते हैं। अनुपस्थिति, अनुपस्थिति की आदत है और अनुपस्थिति स्वयं को काम से दूर रखने की आदत है !



आज भी काम को ही पैसा कमाने का जरिया माना जाता है और यह एक तरह की सुरक्षा हासिल करने का प्रयास है ! काम को साध्य के साधन के रूप में नहीं देखा जाता है। बहुतों को अपने काम पर गर्व नहीं होता और इससे बनी मानसिकता उन्हें काम से दूर रखती है !

## अनुपस्थिति के कई कारण हैं लेकिन मुख्य इस प्रकार हैं

- 1. बीमारी :** अनुपस्थिति अक्सर स्वयं की बीमारी या परिवार के किसी सदस्य की बीमारी के कारण होती है ! आज, कई अलग-थलग परिवारों में रहते हैं, इसलिए बीमारों की देखभाल करने वाला कोई और नहीं है ! अक्सर यह देखा जाता है कि परिवार के सदस्य अपने पति से डॉक्टर के पास या हर दूसरे काम में साथ देने की उम्मीद करते हैं, इसलिए बैंक जाने या घर के कामों को अकेले पूरा करने की आदत जरूरी है।
- २. कई तरह के व्यसन के कारण लोग काम से गायब हो जाते हैं**

## उपायों

- 1. घर के सदस्यों को छोटे-मोटे काम निपटाने के लिए प्रशिक्षित किया जाना चाहिए**



## अनुपस्थिति एक भयानक बीमारी है!

2. हो सके तो घर का कोई भी सदस्य गांव में काम के लिए त्योहार पर उपस्थित हो
3. अनावश्यक समारोहों में शामिल होने से बचें
4. आवश्यकता न होने पर छुट्टी लेने से बचें। साप्ताहिक अवकाश पर अन्य कार्य की योजना बनाएं
5. अवकाश की उचित योजना आवश्यकता के अनुसार बनाई जानी चाहिए और नियोजित अवकाश का उपयोग किया जाना चाहिए
6. किसी ऐसे विशेषज्ञ से सलाह लें जो मानसिक बीमारी या व्यसन के लिए उपयुक्त हो
7. आत्म-अनुशासन और उचित योजना के साथ, हम अपने परिवारों के लिए खुद को बनाए रख सकते हैं
8. नियोजन का हमारे ऊपर कोई हानिकारक प्रभाव नहीं पड़ेगा, हम स्थिति का उपयोग अपनी प्रगति के लिए करेंगे।  
अच्छी चीजों को हासिल करने में बहुत मेहनत लगती है।

ध्यान में रखो :-

कर्म सर्वोच्च गुरु है !

मेहनत के बिना सुकून नहीं !

मेहनत से बढ़ती है खुशियां !

कर्म ही धर्म है !

Mr. Laxman Yamgar  
HCM



### WELDING TECHNOLOGY

What is Welding:- Welding a technique used for joining metallic parts usually through the application of heat. This technique was discovered during efforts to manipulate iron into useful shapes. Types of joining process - 3 techniques are used for joining of metals. 1) Riveting 2) Bolting & 3) Welding / Brazing / Soldering solid - phase processes produce



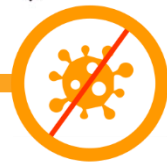
welds without melting the base material and without the addition of a filler metal. Pressure is always employed, and generally some heat is provided. Frictional heat is developed in ultrasonic and friction joining, and furnace heating is usually employed in diffusion bonding. In fusion welding a heat source generates sufficient heat to create and maintain a molten pool of metal of the required size. The heat may be supplied by electricity or by a gas flame. Electric resistance welding can be considered fusion welding because some molten metal is formed. The electric arc used in welding is a high-current, low-voltage discharge generally in the range 10–2,000 amperes at 10–50 volts. An arc column is complex but, broadly speaking, consists of a cathode that emits electrons, a gas plasma for current conduction, and an anode region that becomes comparatively hotter than the cathode due to electron bombardment. A direct current (DC) arc is usually used, but alternating current (AC) arcs can be employed.

**Mr. Akshar Vasekar**  
Technology and R&D

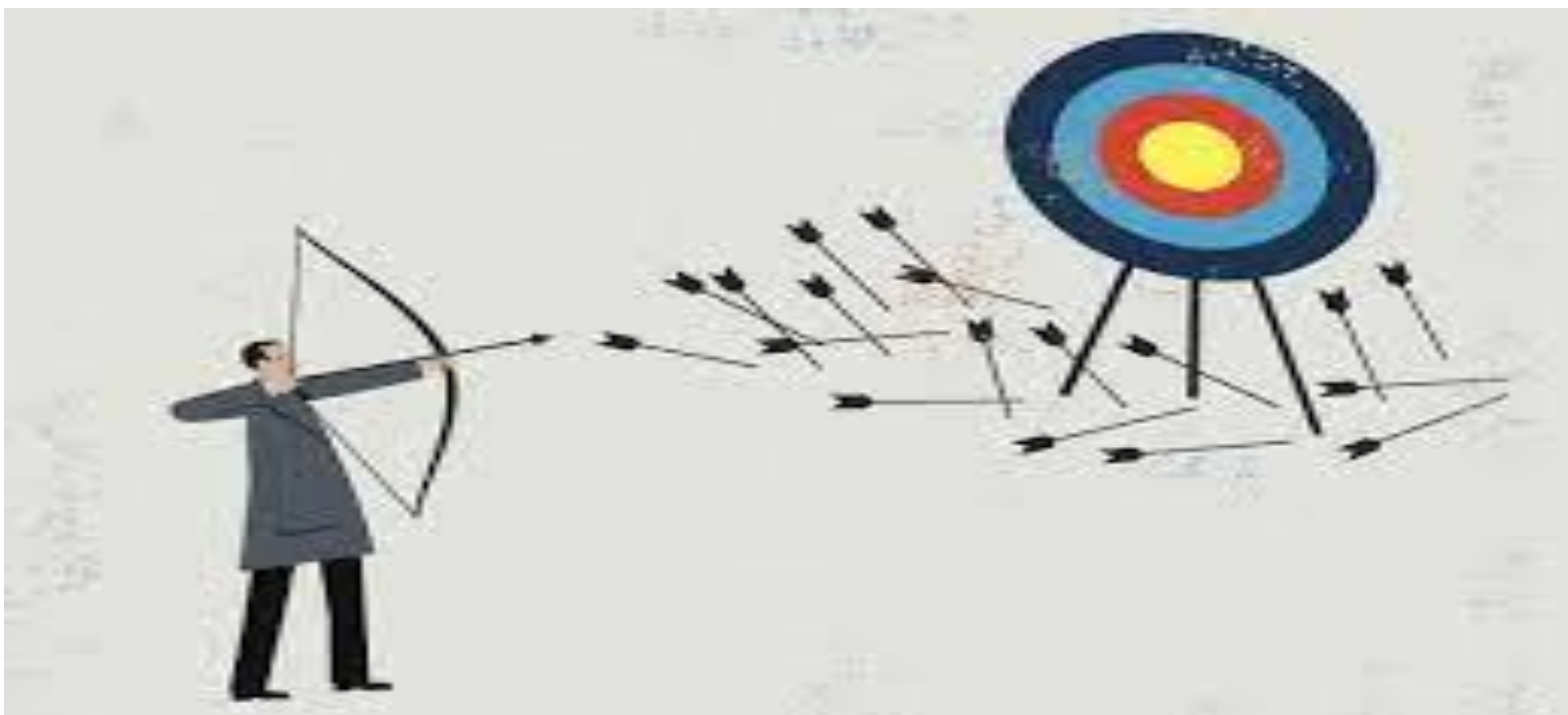




## MOTIVATION & PERSONALITY DEVELOPMENT



### MOTIVATIONAL STORY : DON'T ASSUME YOU ARE GOING TO FAIL



The marine biologist then inserted a strong piece of clear fiberglass into the tank, creating two separate partitions. She then put the shark on one side of the fiberglass and a new set of bait fish on the other.

Again, the shark quickly attacked. This time, however, the shark slammed into the fiberglass divider and bounced off. Undeterred, the shark kept repeating this behavior every few minutes to no avail. Meanwhile, the bait fish swam around unharmed in the second partition. Eventually, about an hour into the experiment, the shark gave up.

This experiment was repeated several dozen times over the next few weeks. Each time, the shark got less aggressive and made fewer attempts to attack the bait fish, until eventually the shark got tired of hitting the fiberglass divider and simply stopped attacking altogether.

The marine biologist then removed the fiberglass divider, but the shark didn't attack. The shark was trained to believe a barrier existed between it and the bait fish, so the bait fish swam wherever they wished, free from harm."





## **R**ESPECT

Honor for  
Dignity &  
Sanctity

## **U**RGE

To strive for  
Innovation and  
Excellence

## **C**ONFIDENCE

To welcome  
and Embrace  
Change

## **H**ONESTY

Stand for  
Truth and  
Transparency

## **A**MBITION

Strong Drive  
for Growth



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Building Bright Future  
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