

Page: General Information

Provide information about the company to be considered for the award. If you will be nominating an individual, specify the nominee's employer.

Name of Organization/Company

PAN AMERICAN ENERGY

Additional Contacts

I would also like to have others receive emails about the disposition of our entries.

Page: Entry Information

Entry Title

Elevating Training with VR

Category

B01 - B67 Achievement > B60 - Best Use of Virtual Worlds for Learning

Achievement Submission Format

Written Answers

a. Briefly describe the nominated organization: its history and past performance (up to 200 words). Required

PAE is Argentina's largest private energy company—leading in production, employment, and investment. It also has a strong regional footprint, with operations in Bolivia, Mexico, and Brazil.

The company develops conventional and unconventional onshore and offshore oil and gas fields and operates oil and gas pipelines as well as oil and hydrocarbon derivatives terminals. PAE also generates electricity and is active in the renewable energy sector.

In the downstream segment, AXION energy operates the most modern refinery in South America, located in Campana, Buenos Aires Province, with a daily capacity of 95,000 barrels. It is the site of the sector's most significant expansion and modernization project in the past 30 years, backed by an investment of USD 1.5 billion.

In retail, the company markets fuels under the AXION energy brand and lubricants under the Castrol brand, through its network of more than 600 service stations nationwide. AXION energy was the first company in Argentina to offer electric vehicle charging points. It also supplies the aviation, maritime, agricultural, and transport industries, and manufactures products for petrochemical use.

b. Outline the team's or organization's achievements since the beginning of 2023 that you wish to bring to the judges' attention (up to 250 words). Required

Since the beginning of 2023, AXION energy's VR training program has reached important milestones, cementing its leadership position in safety and training. In 2023, a major occurrence at an AXION energy service station in Concordia, proved the program's real-world effects. A service station attendant, trained with VR only two weeks earlier, quickly and effectively controlled a fire situation, saving lives. This direct outcome demonstrates the immersive training methodology's immediate and concrete benefits.

The program's reach has also increased. While initially focused on service stations, by 2024, the VR training had been adopted by other business units and adapted to new scenarios, enhancing the company's safety culture among the 7,600 people trained. This includes the introduction of a new VR training module for service station attendants focusing on "Under-the-Hood Work," as well as a CPR module set in the Spot! convenience store environment.

An accomplishment in May 2024 was the extension of the VR training technique to refinery operations at the Campana Refinery, Latin America's most advanced. This innovation improved real-time training for uncommon and high-risk conditions including starting complex compressors and controlling circuit alignment operations.

The initiative received international attention in May 2023 when PAE was invited to showcase its success story at the Virtuality Festival Latam 2023, Latin America's largest metaverse event. This invitation underlines the program's creativity and large-scale implementation, positioning PAE as an industry leader. As of June 2024, the program has an 98% satisfaction rate and an 85% average knowledge transfer score across all training sessions.

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**c. Explain why the achievements you have highlighted are unique or significant. If possible compare the achievements to the performance of other players in your industry and/or to the team's or organization's past performance (up to 250 words). Required**

The accomplishments of AXION energy's VR training program are distinctive and noteworthy, particularly in the energy sector. One notable feature is that PAE was the "first company in the field to execute large-scale VR-based training." This innovation distinguishes AXION energy from competitors, as study conducted in 2019 found that "no local competitors had incorporated new training technologies." This pioneering adoption illustrates a forward-thinking approach to safety and training that well exceeds industry standards

Another noteworthy accomplishment is the VR training's immediate and life-saving impact. The occurrence in 2023, in which an attendant who had only finished the VR training two weeks earlier successfully managed a fire and "saved lives," gives undeniable evidence of the program's usefulness in a vital, real-world circumstance. This clear association between training and a life-saving outcome is a significant testimonial to its practical worth, since it demonstrates a level of achievement that is uncommon in traditional training approaches.

The program's adaptability and scalability are further demonstrated by its extension beyond service stations to encompass refinery operations and other modules like "Under-the-Hood Work" and CPR. Its ongoing development and incorporation into a number of high-risk departments within the business highlight its strategic significance and dedication to a thorough safety culture. Further demonstrating its outstanding success in comparison to standard training programs, the "98% satisfaction rate" and "85% average knowledge transfer score" surpass the initial goals of 90% satisfaction and 80% knowledge transfer. Strong participation and knowledge retention are essential for developing enduring safety habits.

**d. Reference any attachments of supporting materials throughout this nomination and how they provide evidence of the claims you have made in this nomination (up to 250 words). Optional**

The video "How did it happen? What was expected to occur: The training is a potent example of the program's practical effects. In this video, an attendant shares his personal story of successfully managing a fire emergency at a service station and saving lives just two weeks after finishing the VR-based Fire Emergency Response training. This demonstrates how immersive learning transfers into observable safety results and directly supports the program's efficacy.

The movie "working under the hood" depicts a training module for staff to properly do mechanical repair on cars, such as changing the engine oil.

The video "Evento LATAM" depicts the company's participation in the region's leading technology innovation event.

The "VR simulation" movie shows the fast response training for a fire at a gas station.

The PDF "250618\_Axion\_Elevating\_Trianing.pdf," provides a comprehensive overview of the health and safety training program's strategic components. It describes the inspiration for the VR initiative, the objectives established, the thorough strategy used for its creation and implementation, and the rigorous implementation procedure. It also offers quantitative results. This document provides solid, data-driven evidence to support all statements regarding the program's success, scope, and strategic design.

The document "Magazzine Zona de Seguridad" contains an article published by one of Argentina's most prestigious industrial safety magazines.

The document "AXION energy Expands Training Strategy with Virtual Reality Headsets\_Nota Surtidores ENG.pdf" contains an article released on the implementation of a new VR training program at AXION energy's refinery.

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**Would you like to add an additional webpage link?**

Yes

[REDACTED]

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**Would you like to add an additional supporting document?**

Yes

Supporting Document 2

[REDACTED FOR PUBLICATION]

[REDACTED]

[REDACTED]

Would you like to add an additional supporting document?  
Yes

Supporting Document 4

[REDACTED]

Would you like to add an additional supporting document?  
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