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METALS & MINING AX01221

**Extended reality platform for
immersive industrial training**

The technology
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heavy industry

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EXTENDED REALITY PLATFORM FOR IMMERSIVE INDUSTRIAL TRAINING

How it works

This innovative, cloud-based workforce training platform uses extended reality, created from a mix of VR and AR, and digital twin models to accurately recreate hazardous installation scenarios that would be expensive and almost impossible to accurately recreate in real life.

Using realistic animations and an immersive environment, it delivers practical skills training, improves decision-making in stressful situations, and increases learning outcomes and readiness without risk. It empowers workers to practise complex tasks and experience the actual consequences of not following best practices without putting themselves and others at risk.

As a result, it eliminates the time and costs involved in replicating hazardous scenarios in real life and drives compliance with safety standards. It also allows workers to train with equipment that is still being built, minimising the gap between delivery and operation. And, it enables personnel to familiarise themselves with the work processes and equipment of crucial procedures from remote locations.

Operators can use this platform with its in-built training modules or create new bespoke training environments based on each of their situation's unique requirements. Content can be integrated with an existing Learning Management System or accessed directly through the solution platform.

In addition, this solution integrates all tools and reporting to deliver complete visibility of workforce competence and makes plants audit-ready. This data empowers managers to track learning and training, identify skills gaps, and find effective ways to fill them.

Key facts

typically

40%

reduction in training time

typically

70%

improvement in employee
performance

300%

estimated ROI potential

TOP BUSINESS BENEFITS

There are six main business benefits to this extended reality software training platform:

- › Reduces industrial accidents
- › Reduces dangerous human errors
- › Improves compliance with safety standards
- › Reduces training time
- › Improves training efficiency and learning retention
- › Improves employee performance

By creating hyper-realistic hazardous situations that could occur within a plant, this training platform is proven to significantly reduce industrial accidents. As well as preparing the workforce for multiple eventualities, it has also been found to improve learning retention so that these skills are not forgotten. This means that its training programmes do not have to be repeated as frequently.

By training the workforce on how to ensure the highest standards of safety at all times, it reduces costly human errors, boosts performance, and improves compliance with safety standards.



Screenshot of training visuals

Top benefits

- › Reduces industrial accidents
- › Reduces dangerous human errors
- › Improves compliance with safety standards
- › Reduces training time
- › Improves training efficiency and learning retention
- › Improves employee performance

CUSTOMER SUCCESS STORIES

Petrochemicals company

Customer challenge

This petrochemicals company wanted to create a training programme for an asset that wasn't yet operating in the field to enable the crew to familiarise themselves with its uses. This meant that different learning technologies had to be incorporated into the platform to create a blended training programme for all future recruits.

Solution

This solution created a fully immersive VR digital twin of the new asset, including various VR scenarios, flyovers and competence assessments. As a result, the workforce was able to familiarise themselves with the infrastructure of the new asset and work with it safely and effectively when it came into use.

Oil and gas company

Customer challenge

This oil and gas company couldn't find an off-the-shelf training solution that met its needs.

Solution

Working with the company behind this training platform, this oil and gas company developed its own unique training module that establishes its key learning objectives. This bespoke solution ticked all of the company's learning goals.

FAQ

How realistic are the augmented and virtual reality scenes used in this solution?

Created using photorealistic imagery and true-to-form asset replicas, this solution creates highly realistic, engaging environments for your training purposes.

Is it possible to update the training programmes over time?

Yes, all the virtual reality training assets can be updated over time to ensure longevity.

About Axora

Axora is the global technology **marketplace** for heavy industry. We source the best innovative solutions, to solve the biggest industrial problems.

Our service helps industrial companies to discover, evaluate, procure and deploy technology from all over the world.

Entrusted globally by 100s of industrial leaders and innovative solution providers, we help companies take action to hit their safety and sustainability goals.

Your next steps

→ [Email us](#)

About the solution provider

With offices in Europe, America, China, and the Middle East, this company is on a mission to develop and deliver industry-leading software training platforms. These enable organisations to manage, track, and expand their training programmes and achieve, or even exceed, their business goals.

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