

Virtual Reality Training, WorksiteVR Quest: A Leap Forward in Personnel Induction at Rio Tinto's Oyu Tolgoi Mine.

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Immersive Technologies developed a series of [WorksiteVR Quest](#) virtual reality scenarios designed to facilitate a blended learning model in conjunction with eLearning and practical activities. Mine site inductions are necessary however often dry, boring, and forgettable. Mining operations are now acknowledging the value of Virtual Reality Training, shifting site inductions to become a significant opportunity to proactively mitigate risk. With the use of WorksiteVR Quest, this is being achieved with exceptional results. Mining personnel are completing their induction possessing the confidence that they can apply their learnings and deal with emergency situations, along with an increased level of information retention after induction is complete.

Rio Tinto's Oyu Tolgoi mine in Mongolia, operates ten WorksiteVR Quest Systems with more than 1,100 people having completed the induction program. As a new mine in development a large number of contractors and permanent staff are on site. At its peak, there will be 5,800 people on site that require induction and safety training which:

- Conveys critical mining and safety information
- Caters for vastly different levels of experience
- Accommodates multiple languages
- Addresses retention and application of knowledge and skills
- Transitions seamlessly from theory to competence on the job
- Demonstrates commitment to ZERO harm



Photo: WorksiteVR™ Quest allows users to virtually experience, engage and understand surface and underground environments, safety hazards and emergency situations.

[Video Link](#)

The scenarios were developed in both Mongolian and English and covered topics ranging from identification of correct PPE to refuge chamber access and procedures.

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Media Release



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E X P E C T R E S U L T S

An analysis of survey data was conducted where monthly results of the training before WorksiteVR Quest was introduced were compared with the results after. This was conducted over a 10-month period and included both expats and Mongolian nationals. The results demonstrated broad improvements including:

- 22% increase in understanding of tagging procedures.
- 12% increase in confidence in personnel being able to apply their learnings.
- 10% increase in knowledge retention and recall.
- 16% increase in confidence of successfully initiating an emergency response.

“This achievement by Oyu Tolgoi mine using WorksiteVR Quest, provides an excellent example of how, this technology can be applied to great effect. WorksiteVR Quest, like all Immersive Technologies products is designed from its core out, to achieve quantifiable improvement in the safety of mining personnel.” says Wayde Salfinger, Executive Director – Marketing, Immersive Technologies.

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About Immersive Technologies

Immersive Technologies is the world’s largest, proven and tested supplier of surface and underground Advanced Equipment Simulators to the global mining industry. The company has achieved this unique position by focusing on its mission to make every mining and earthmoving equipment operator in the world safer and their employer more profitable through its simulation technologies. Immersive Technologies’ Advanced Equipment Simulators are helping hundreds of mining companies around the world to increase their equipment operators’ safety and site profitability through effective simulation training.

Immersive Technologies provides its customers with the most effective Advanced Equipment Simulators available. This is made possible through the formal exclusive licensing and technical information alliances Immersive has established with the leading Original Equipment Manufacturers (OEM), including: Caterpillar, Hitachi, Komatsu and Liebherr. These unique alliances provide Immersive Technologies with exclusive access to the OEM’s proprietary and confidential machine technical information that is required to correctly simulate the OEM’s machines and is not available through other public or dealer channels.

With advanced simulator modules deployed in 44 countries, Immersive Technologies is dedicated to provide outstanding service. To deliver on this commitment the company has customer sales and support offices located close to its customers in Perth and Brisbane Australia, Salt Lake City USA, Fort McMurray, Ottawa & Vancouver Canada, Monterrey Mexico, Lima Peru, Santiago Chile, Bochum Germany, Johannesburg South Africa, Jakarta Indonesia, Kolkata India and Moscow Russia.

Immersive has the global mining experience, innovative technology, product range, OEM relationships, proven support commitment and industry vision to partner with you to ensure your simulator training solution delivers the significant results you expect.

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