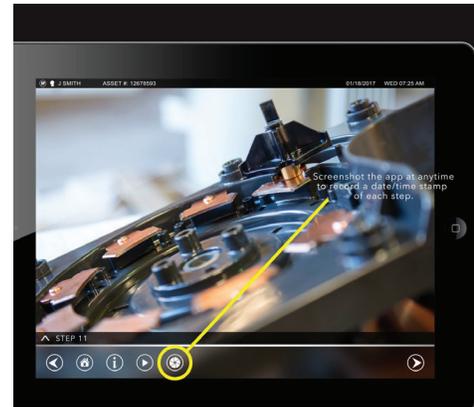
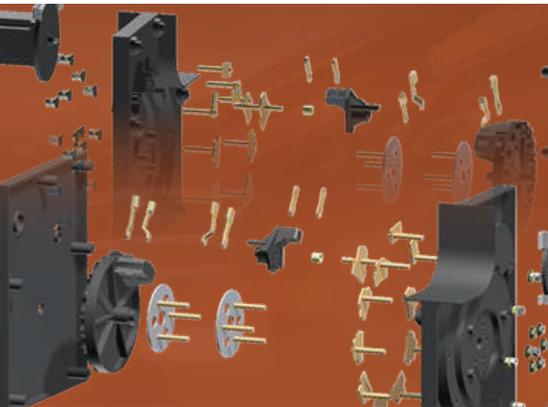




www.IndexARSolutions.com

Index AR Solutions develops and deploys augmented reality (AR)-based solutions on mobile devices to solve client challenges. Our dedicated team of AR professionals uses its industrial experience, expertise and knowledge to create unique AR solutions.



MAINTENANCE AND TRAINING Voltage Regulator Augmented Reality App

The Index AR Solutions Voltage Regulator Training and Maintenance Augmented Reality (AR) App is the first step in the ecosystem of AR training and maintenance applications for utility companies. This app provides the utility worker with a tool to improve performance on the complex tap change procedure for a voltage regulator and can be used for both training and maintenance in the field. The app (by overlaying digital information on the real world in a training or maintenance environment) addresses the critical issues of safety, learning, knowledge transfer and knowledge degradation. Six to 12 months can pass between doing a complex maintenance procedure in training and actually doing the procedure in the field. This app refreshes the worker's knowledge and training experience in the field.



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HOW IT WORKS

The app includes a highly engaging Augmented Reality (AR) step-by-step process, part and component identification, reference data interrogation, safety warnings, multiple language functions and compliance to outside and internal regulatory requirements.

SAFETY

Learning outcomes in the app are measured in a combination of areas that are mission critical to utilities, chief among them is safety. Currently, errors usually show up in equipment failure, which is very dangerous and costly. Safety outcomes from the app are measured at the individual, team and corporate levels. The app has equipment tolerances and processes as well as utility and regulatory requirements. The measurement of learning outcomes is done over time compared to base safety levels and current average time to maintain a voltage regulator.

KNOWLEDGE TRANSFER

After improved safety, the expected outcome of the app is improved knowledge transfer from the current highly skilled technical labor force to a workforce entering the utility industry to replace retiring workers. Knowledge transfer is captured within this app where it can then be absorbed and used in training. As a result, workers are safer because the app reduces learning time, while simultaneously making them more efficient and valuable to their employer. The app also provides standardization of maintenance and other complex procedures.

LEARNING PROCESS

The app includes more than 40 steps which will allow the employee to work through the voltage regulator

by themselves. If the employee finds something that is unique or confusing they can take a picture or screenshot of the step with the AR overlaid and send it to their supervisor. How quickly the knowledge transfer happens will depend on the individual, but based on our experience with other similar training/maintenance AR apps — stunning results are expected.

IMPLEMENTATION

After the upfront investment to develop the app, the cost to deploy and maintain the app as well as any required upgrades is manageable. Since the application runs on off-the-shelf hardware, mobile devices already in circulation can be used by trainers. All that is needed to deploy the app to a utility company is 1) a smart phone or tablet, with 2) the app loaded.

AR IS AN INVESTMENT IN PEOPLE

The approach Index takes with the AR it develops completely revolutionizes the way that work is performed in manufacturing, construction, operations, maintenance, and any place where skilled tradesmen, craftsmen and technicians work. This is because of the tremendous value of overlaying visual information on their real world.

Investing in AR with Index is an investment in people, helping:

- make them more capable and productive, and thus more valuable;
- augment and enhances performance (it does NOT replace people); and
- create a sustainable competitive advantage for companies that adopt the technology early, resulting in a safer and more efficient environment.

CONTACT US

AR is ready now. An enterprise can deploy AR and immediately reap the benefits of this investment in their people. Visit the Index AR Solutions YouTube channel to see first-hand worker experiences with AR, as well as worker testimonials. There is no reason to wait. Potential clients can get an on-site, hands-on demonstration.

