



Training for the maintenance of large equipment.

Training for the operation of large-scale opencast mining equipment is time-consuming and cost-intensive. RWE Power AG therefore uses Microsoft HoloLens® applications developed by TÜV Rheinland Academy.

Data and facts

Client	RWE Power AG
Period	January 2018 ongoing
Site	Cologne
Services	Development of Microsoft HoloLens® applications

INITIAL SITUATION AND REQUIREMENTS

RWE Power AG operates a large number of large-scale opencast mining equipment that must undergo continuous maintenance. In the course of maintenance measures, the maintenance department should operate large opencast mining equipment independently. However, training directly on the machine would tie up too many resources and cause unnecessary costs. With Microsoft HoloLens®, on the other hand, employees can undergo training at any time and learn the individual elements and step sequences for operating a bucket wheel excavator without any consequences.

All of the content was developed individually for RWE's requirements.

YOUR BENEFITS



Learning success is improved by a high degree of personal activity, because people remember 90% of what they do themselves. TÜV Rheinland Academy's Digital Learning services offer a time-efficient and economically scalable solution for continuing education in the modern world of work: You decide on the right format. With around 20 years of project experience, we implement the development and support you in evaluating your learning progress. We provide ultimate assurance through independent personnel certification.

SOLUTIONS, RESULTS

Two application scenarios were developed with Microsoft HoloLens®: In the first course, the employee learns the operating elements and the effects of his own actions on a 3D excavator model from any location. In the second scenario, the employee is located directly in the excavator and is assisted in accomplishing certain tasks by holographic instructions. This is made possible by superimposing 2D and 3D elements into the real environment using Microsoft HoloLens®.

DID YOU KNOW...?

RWE AG was founded in Essen in 1898 and currently employs almost 60,000 people. In 2017, they generated a turnover of 446 billion euros. In terms of sales figures, the company ranks first on the German electricity market and third on the gas market.

ABOUT TÜV RHEINLAND ACADEMY

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