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April 2024 Newsletter

Capture Your Shop Floor Process to Create a Reusable Experience

In manufacturing floor environments throughout the globe, the ability to capture and retain years of manufacturing knowledge is key to optimizing current and future personnel efficiency, producing quality product and improving overall plant performance. This knowledge is the hidden gem within organizations and needs to be captured and shared to retain and utilize this knowledge and turn it into an experience as key personnel are set to retire and new personnel are joining. This is especially valuable as the turnover rates in most manufacturing environments are at a high level. Some use cases that utilize this expertise and turn it into great company assets are:

Leveraging this knowledge to develop digital training and work instructions

The challenge is that the current paper-based manuals and in-person training are costly and the ability to maintain them as product and processes change iterate is very cumbersome, difficult and expensive. Utilizing augmented reality to capture and harness this expertise allows for accelerated capturing, and ease of delivery both in in-person environments and/or virtual environments.

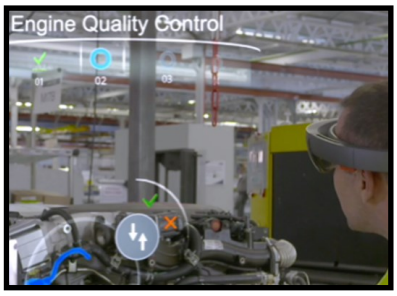
The benefits will be realized through accelerated employee onboarding, reduction in cost in both capturing and delivering training to new personnel. This also enables an easier method to train and certify manufacturing personnel for the work at hand.

Improving Workforce and Operational Efficiency

It takes considerable time to elevate new personnel performance to become proficient in executing their assigned manufacturing process. Along with this, during this time new employees can potentially produce errors while on the job resulting in defective parts and products.

The benefits are materialized through reduction in scrap by bringing employees up to speed quickly. With the digital capture and delivery methodology, the ability to train and retrain when needed becomes a reality that is executable in a timely manner.

Improving Quality Control



The cost of quality is a metric that manufacturers are constantly looking at ways to improve. The need to have experienced personnel with the needed expertise is key to ensuring product quality. The ability to create, enhance and revise the digital assets that provide this to new or less experienced employees is essential to achieving this improvement goal. Then you must take these digital assets and integrate them with the work process and floor machinery that are used to perform the work. This will provide the digital environment to assess the work being conducted as meeting/failing the success criteria for the work being conducted.

The improved quality both in process and at the end of the product line will improve the company's bottom line. In doing so, it will improve both the timeliness and cost of recognizing poor quality within the operations.

These are a few of the use cases that utilize augmented reality to capture and distribute digital assets throughout the manufacturing environment. These use cases only become reality by utilizing the company's personnel that has the needed knowledge and expertise. The value becomes exponential when used throughout the company.

These technologies provide the means and mechanisms for taking hidden expertise and expanding it throughout a company's workforce.

If you'd like to talk about how we can help you with these digital solutions —give us a call!

Next Month: Organizational Change Management—Key to Success

www.driven-4.com info@driven-4.com (269) 281-7567

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