

## Mixed Reality

### What is mixed reality

Mixed Reality is the merge of real and virtual worlds to produce new environments and visualizations where physical and digital objects co-exist and interact in real time.

Mixed reality not only adds layers of information on top of the real world but it also places digital objects into the real world. This is why you can interact with and manipulate both physical and virtual items by using voice control and hand gestures. So instead of just looking at a hologram, you can do something to it -- you can touch it, rotate it, turn it upside down.

Trainees can use mixed reality as a learning tool and employees can use it as a supporting tool in the workplace, making step-by-step procedures easier to pick up. Mixed reality also allows the trainees to practice motor skills. Developing mixed reality applications is less indicated for rapidly changing learning contents or for large amounts of cognitive learning.

### Why using mixed reality as learning technology:

- It allows meaningful interaction with digital data and the physical world
- It offers a safe simulation of learning environments
- It allows learning at your own pace
- It enables training-on-the-job

### Advantages

- Allows interaction with both physical and digital world
- Facilitates learning of complex procedures
- Allows practicing of motor skills on the work floor
- Can be used for learning at your own pace
- Users' progress is easy to track

### Disadvantages

- Less suited for fast changing learning content
- Requires a long development time
- Involves high development costs
- Development is almost always done externally

Want to learn more about the benefits of mixed reality? Fill in the decision tool and find out which tools will serve your goals.