cytiva

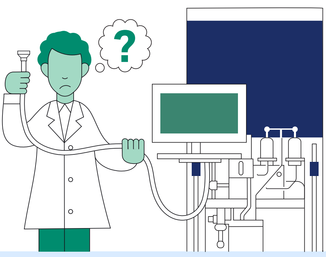
Blended learning

An approach to operator training

Let's talk about operator training

Installation errors and inexperienced operators are a common cause for lost, delayed, low-yield or rescheduled batches.

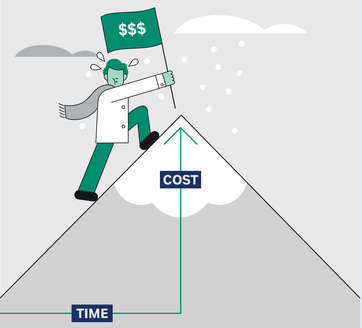
Approximately 3% of GMP batch failures are due to operator error.[1]



It's a wise investment in people and process

But are your current training methods costly in both time and money?

Our research shows training biomanufacturing operators is both time consuming and costly.



Have you heard? Traditional training has moved on...

There was a time when we just read and signed a procedure.

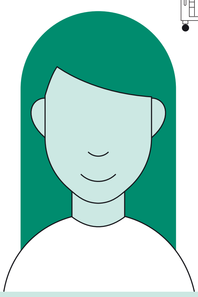
Now we have blended learning!

Blended learning is...

A blend of digital and experiential learning from face-to face training to virtual reality fully, engaging every operator... **because we all learn differently.**

Hands-on training

Online eLearning



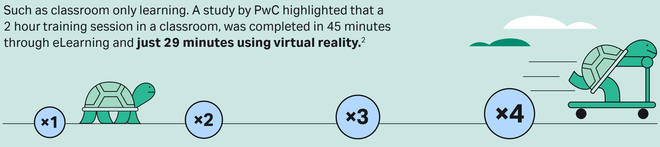
Face-to-face training

Virtual classroom training

Virtual reality training

...and it's up to 4× faster than traditional methods...

Such as classroom only learning. A study by PwC highlighted that a 2 hour training session in a classroom, was completed in 45 minutes through eLearning and **just 29 minutes using virtual reality.**[2]

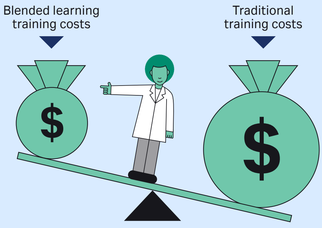


Additionally, 85% of respondents in our recent survey said that VR improved learning.[2]

Have you calculated the cost savings?

Implementing VR training can pay for itself in a few months and reduce risk of operator error for years to come.

Reap the rewards of a good investment!



Is blended learning sustainable?

The digital and virtual aspect of blended learning improves sustainability by:

- Reducing the amount of consumables used
- Reducing travel need

However, the greatest reduction in environmental impact comes from more efficiently trained operators leading to minimized batch loss.

Click here to learn more about our operator training programs

cytiva.com

For local office contact information, visit cytiva.com/contact

CY43002-28MAY2024-IG

[1] *2023 20th Annual Report and Survey of Biopharmaceutical Manufacturing Capacity and Production, BioPlan Associates, Inc., 2023*

[2] *PwC. What does virtual reality and the metaverse mean for training? https://www.pwc.com/us/en/tech-effect/emerging-tech/virtual-reality-study.html Published 15 September 2020. Accessed 20 March 2024*