

# Concurrent (glossary)

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concurrent

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(1) *Happening at the same time as something else; operating or acting in conjunction with another.* (Oxford English Dictionary Online 2012)

(2) *Meeting or tending to meet at the same point; being in accordance; harmonious.* (Ma, et al 2008)

(3) *Concurrent engineering is a work methodology based on the parallelization of tasks (i.e. performing tasks concurrently). It refers to an approach used in product development in which functions of design engineering, manufacturing engineering and other functions are integrated to reduce the elapsed time required to bring a new product to the market.*

(4) *A concurrent life cycle approach applies life cycle activities in parallel to ensure the necessary relationships between them are considered within the life cycle.* (Created for SEBoK)

## Sources

(1) and (2) Oxford English Dictionary. s.v. "Concurrent."

(3) Ma, Y., G. Chen, & G. Thimm. 2008. "Paradigm Shift: Unified and Associative Feature-based Concurrent Engineering and Collaborative Engineering." *Journal of Intelligent Manufacturing*. DOI

(4) This definition was developed for the SEBoK.

## Discussion

(1) and (2) are dictionary definitions encapsulating the key ideas of things down at the same time, but within some common cause and joint end result.

(3) comes from the production world, where the idea of concurrency is used to both shorten delivery time and improve quality by putting activities in parallel which need to work closely together.

(4) is the more general lifecycle concept building on these ideas.

### **SEBoK v. 2.10, released 06 May 2024**

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