

BIOMEDICAL & CLINICAL ENGINEERING

The Impact of Experiential Learning on Biomedical Engineering Learning Outcome: From Classroom to Field

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Within the 21st International Operations
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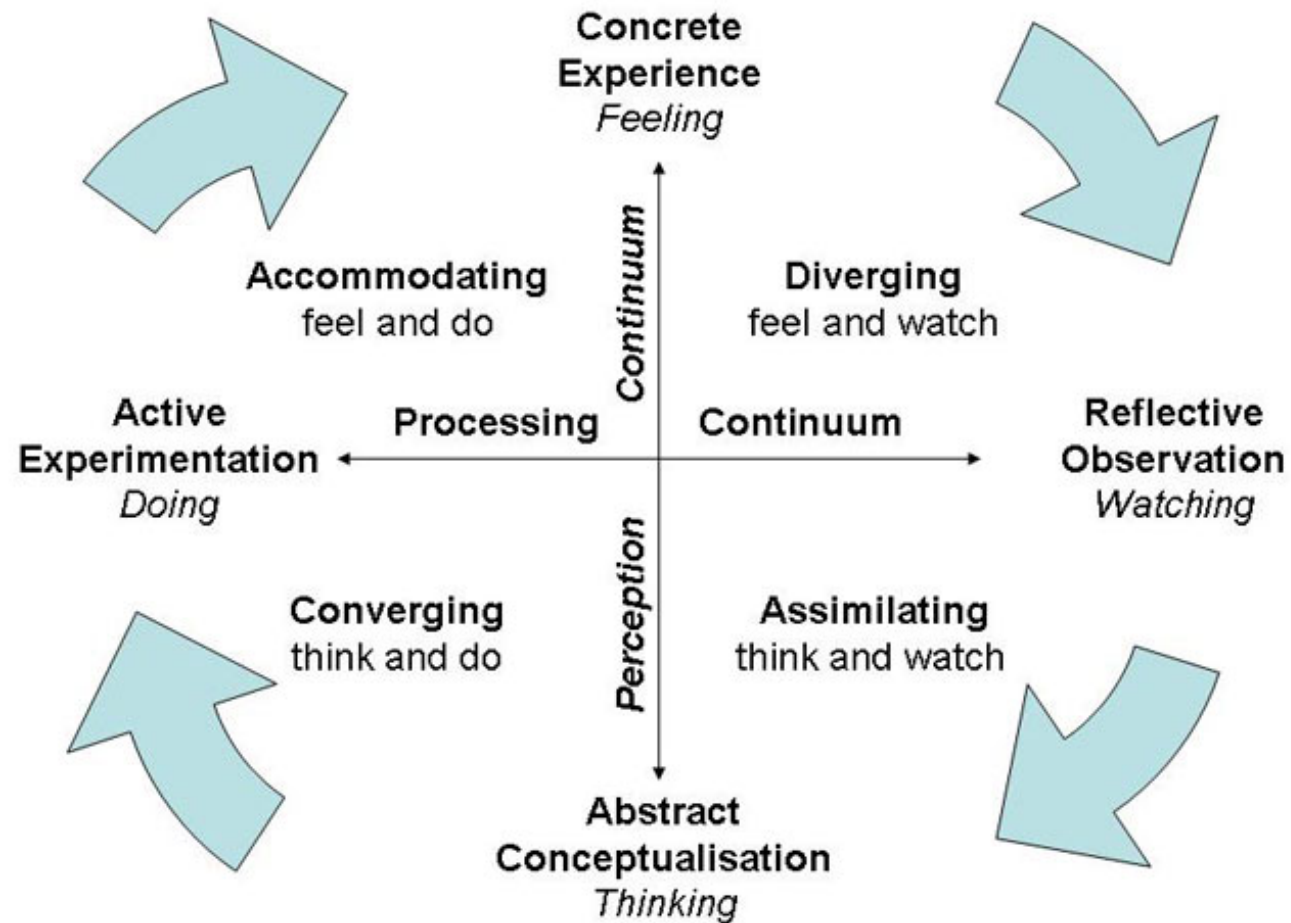
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Experiential Learning Theory

- Experiential learning theory is about learning by doing. It involves the transformation of experience into effective learning.
- The model was published in 1984 by David Kolb, an American psychologist, professor and education theorist.
- Kolb's theory explains that concrete experience, reflective observation, abstract conceptualization and active experimentation form a four-stage process (or cycle) transformed into effective learning
- Kolb's experiential learning theory stresses how our experiences, including our thoughts, emotions and environment, impact the learning process.

David Kolb's Learning Cycle



Internship

The internship is a **method of experiential learning**, that **combines the theoretical knowledge** learned in the classroom with **practical application** and skill development in the organizational setting.

It involves critical monitoring of work or service experience, in which the intern has purposeful learning objectives. Further, it clearly showcases what the intern has learnt throughout the experience, as well as it leads to the all-round development of the learner, be it academic, professional, personal and social.

In other words, **an internship is a short term training, wherein the intern learns and develops skills in a particular domain or career**

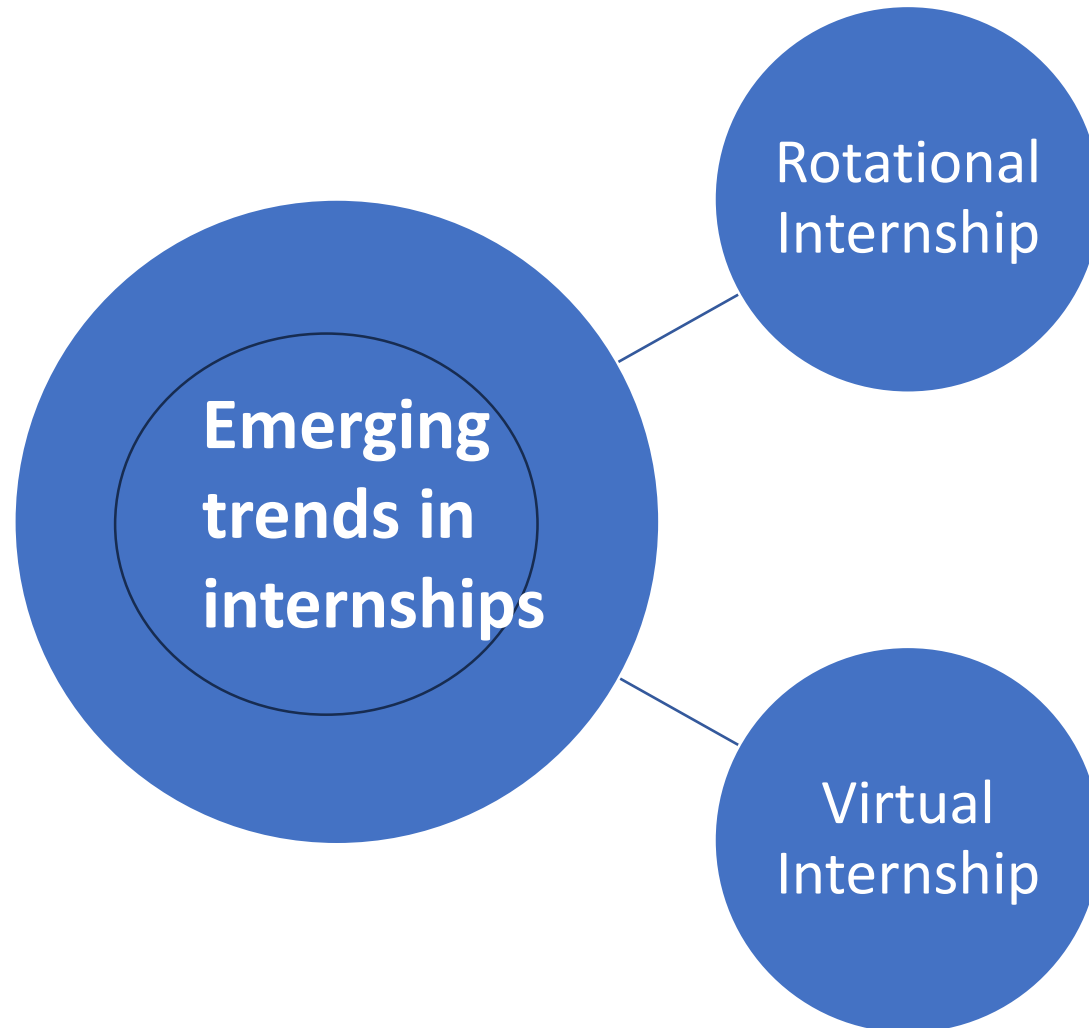
Learning Goals of Interns



Characteristics of Internship



Emerging Trends in Internship



Internship versus Training

Internships are designed to **provide hands-on experience** to students or recent graduates

Training is typically designed to **teach new skills or knowledge** to employees,

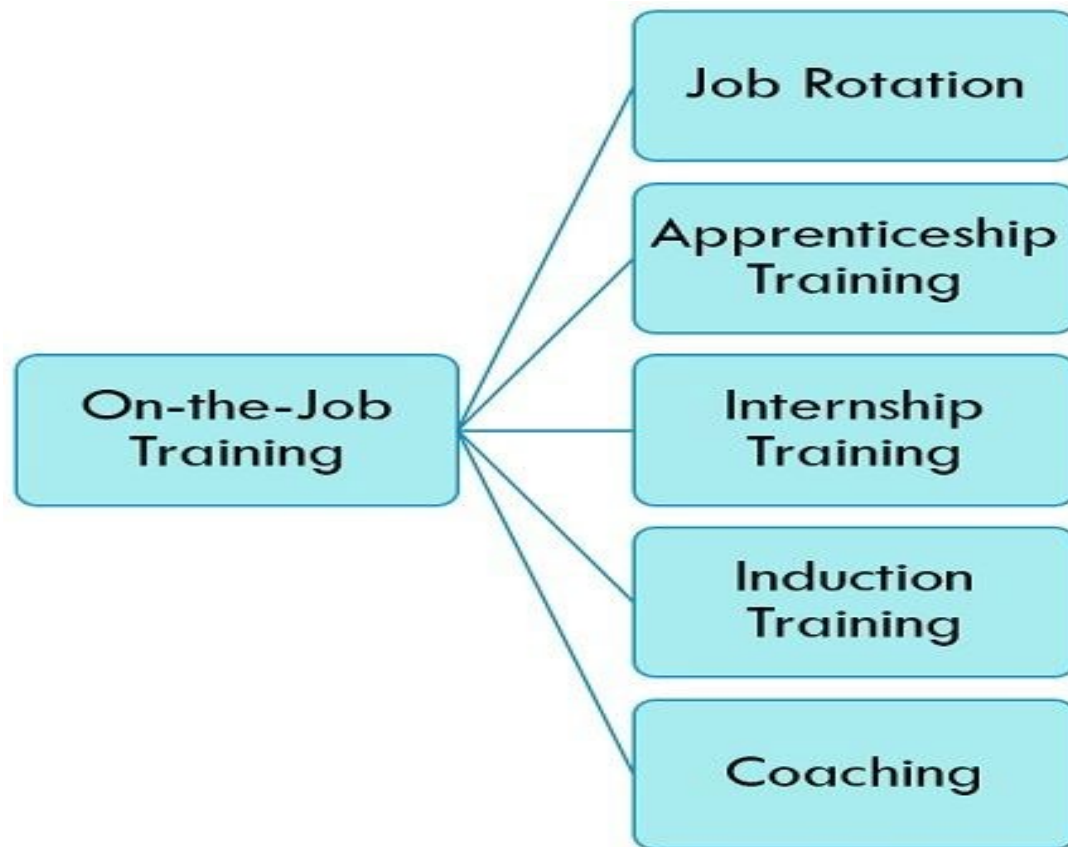


Training

Training is the process of sharpening the knowledge and skills of the employees, so as to prepare them for the job.

It results in learning, i.e. the trainee learns new habits, practical knowledge, refined skills, at the time of training, which results in improvement of performance.

Training Methods



Key Differences



Key Differences

Experiential Learning

“There is nothing so practical as a good theory” *Kurt Lewin*

“There is nothing so theoretical as a good practice” *David Hunt*

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