



Simulation

PATRICIA TRITT, RN, MA

TECHNICAL CONSULTANT

COAEMSP

[PAT@COAEMSP.ORG](mailto:pat@coaemsp.org)

DENNIS EDGERLY, M.ED, EMTP

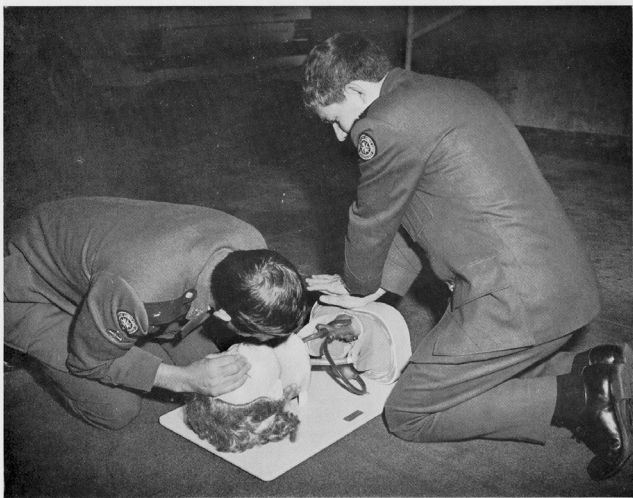
DIRECTOR EMS ACADEMY

ARAPAHOE COMMUNITY COLLEGE

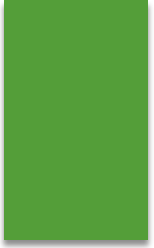
[DENNIS.EDGERLY@ARAPAHOE.EDU](mailto:dennis.edgerly@arapahoe.edu)

EMS Education

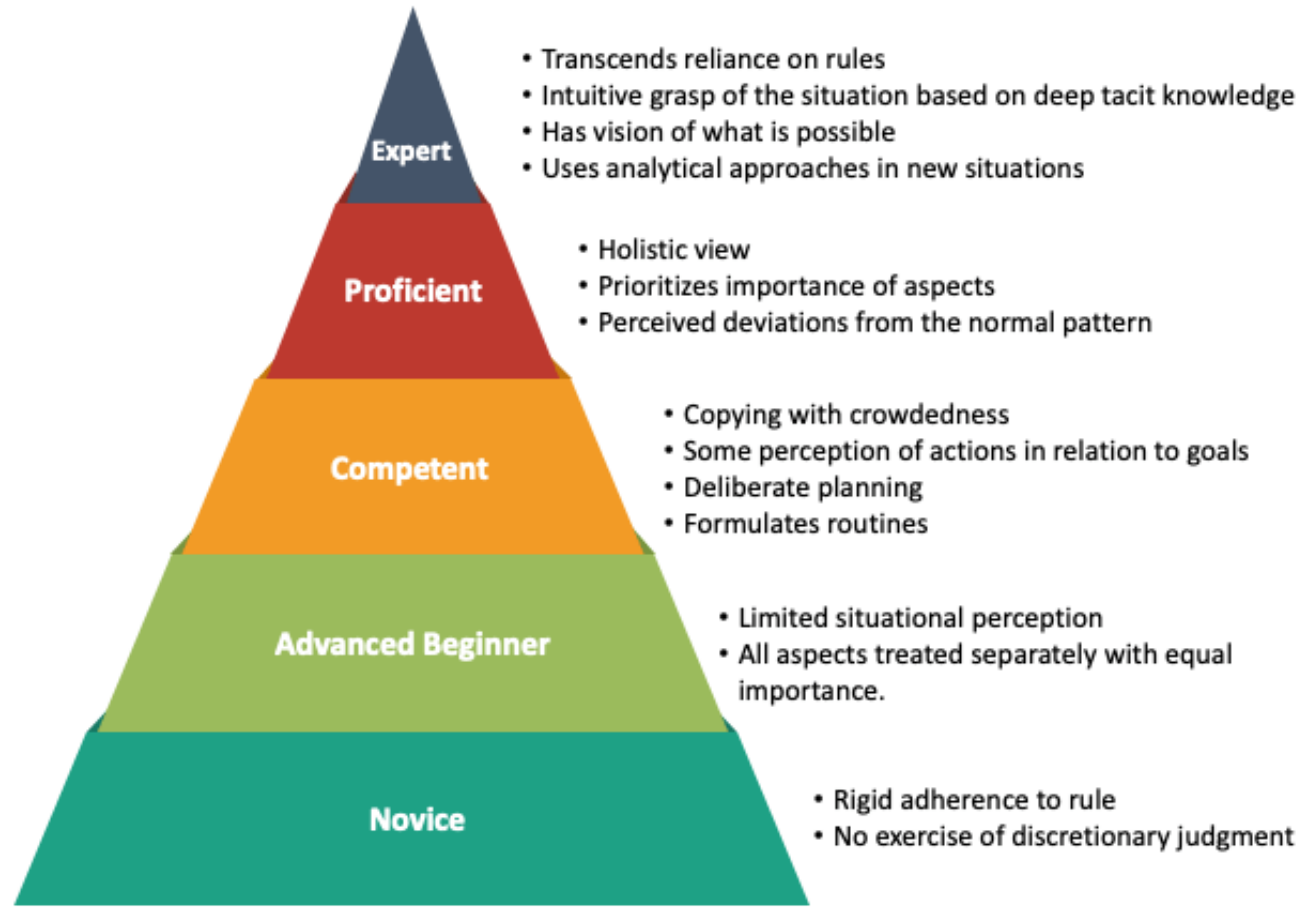
- ▶ EMS Education Standards (2009)
- ▶ Paramedic Portfolio (2017)
- ▶ Advancement in training technology



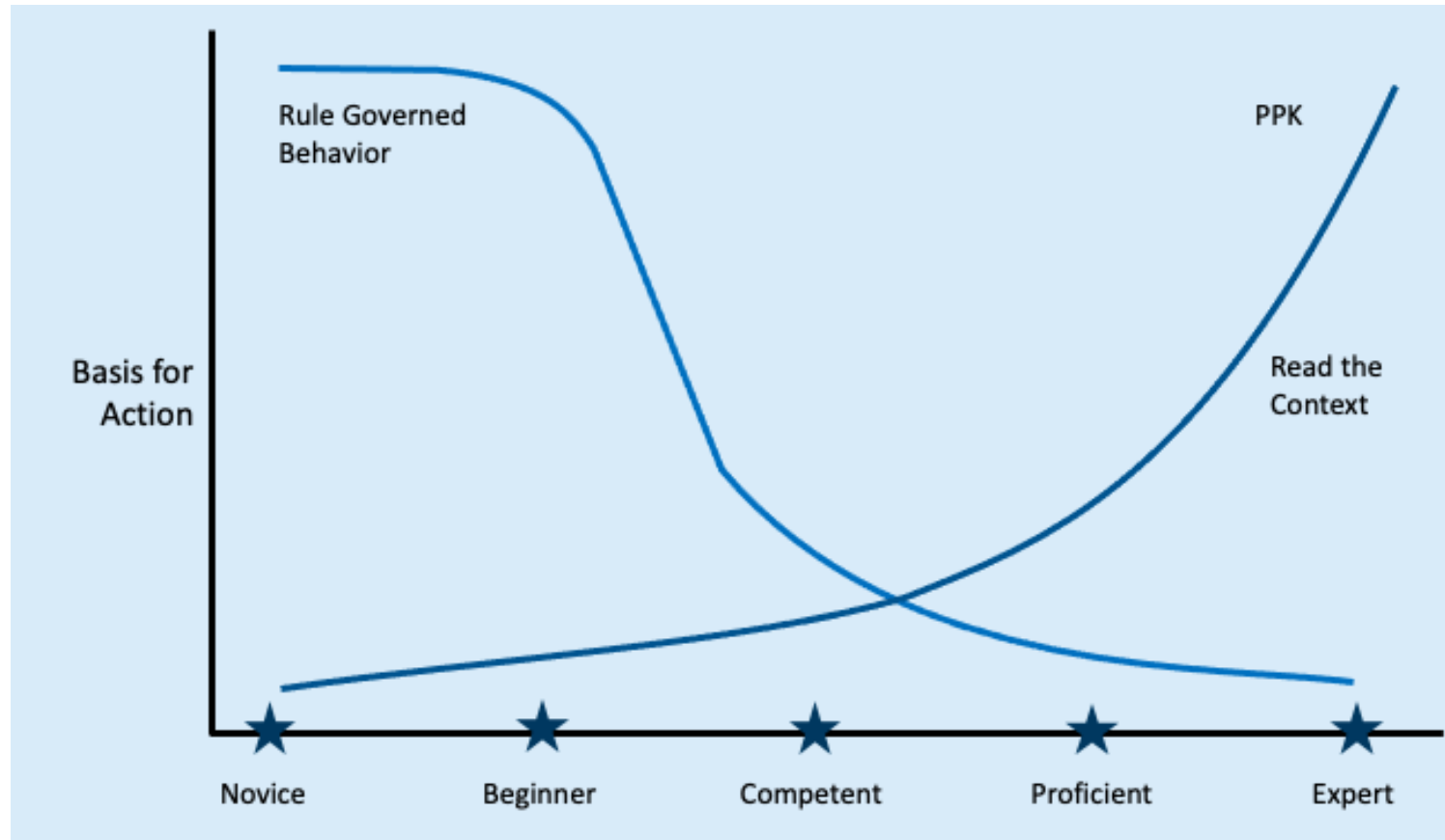
A demonstration of external cardiac compression and mouth-to-mouth resuscitation being carried out simultaneously.



Dreyfus Model



Personal practical knowledge



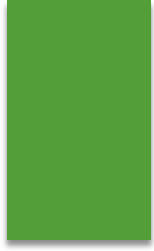


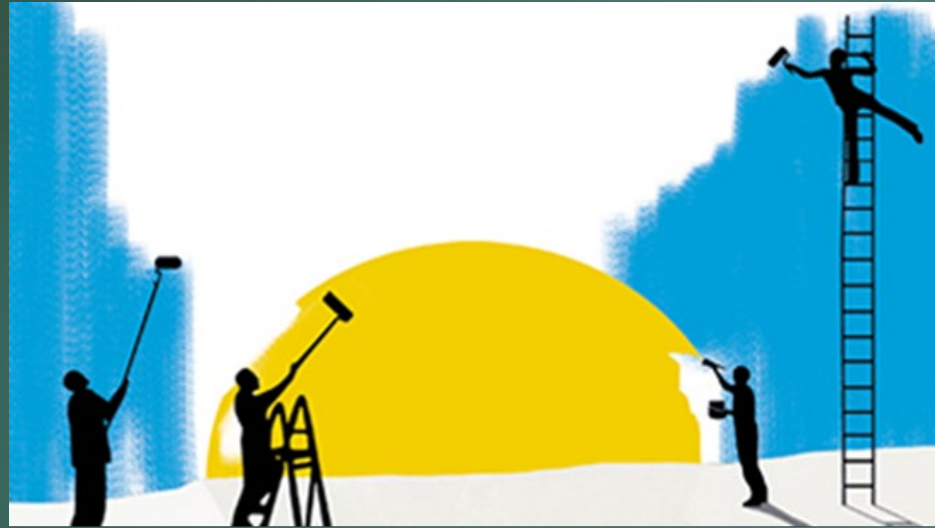
skills

Scenarios

Clinical

Internship





Formative

Summative



“

In health care simulation, high-fidelity refers to simulation experiences that are extremely realistic and provide a high level of interactivity and realism for the learner.

”

INTERNATIONAL NURSING ASSOCIATION FOR CLINICAL SIMULATION AND LEARNING, 2013

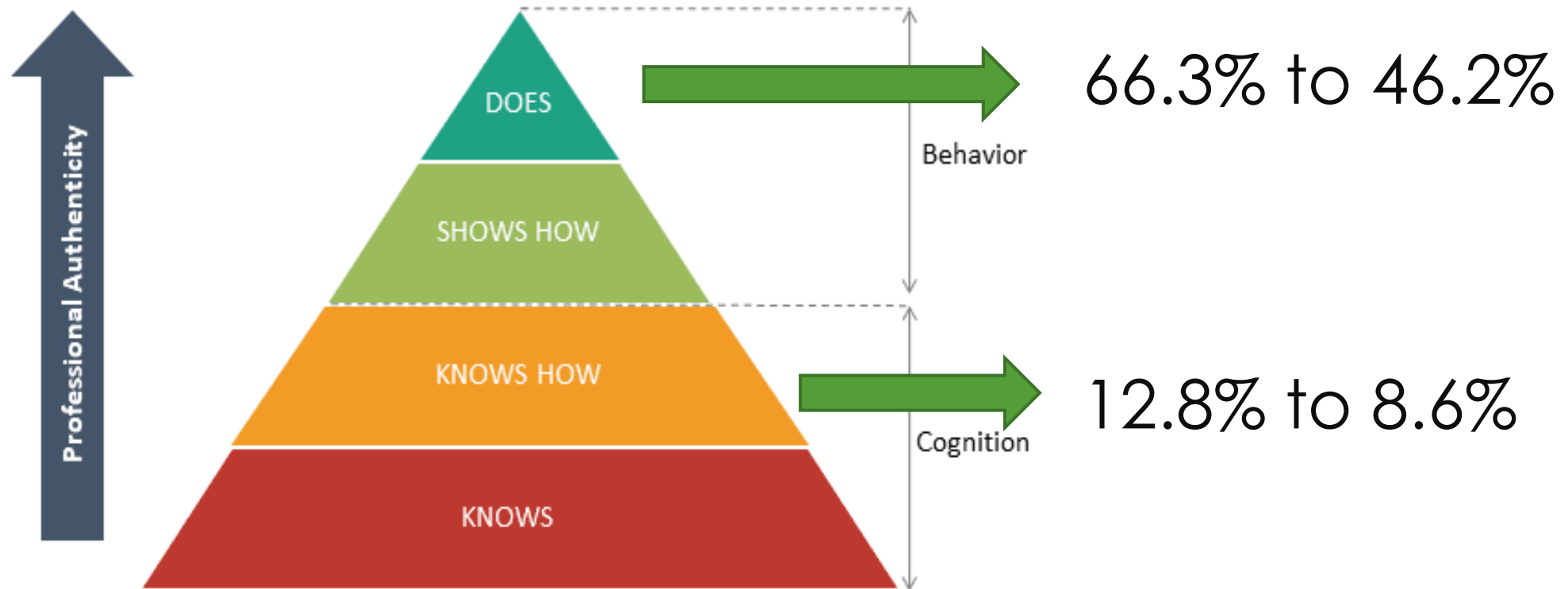
HEALTHCARE SIMULATION DICTIONARY [HEALTHCARE SIMULATION DICTIONARY \(SSIH.ORG\)](https://www.ssih.org/)


Carey JM, Rossler K. **The How When Why of High Fidelity Simulation.** [Updated 2021 May 9]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2021 Jan-.

<https://www.ncbi.nlm.nih.gov/books/NBK559313/>

Emerging Evidence Toward a 2:1 Clinical to Simulation Ratio: A Study Comparing the Traditional Clinical and Simulation Settings

Sullivan et al (2019 May)



- 
- ▶ The National Council of State Boards of Nursing National Simulation Study
 - ▶ 50% of traditional clinical hours can be replaced with simulation
 - ▶ 1:1 replacement ratio and produce the same outcomes.

Simulated Events

- ▶ High risk
 - ▶ Patient
 - ▶ Provider
- ▶ Low frequency

Simulation

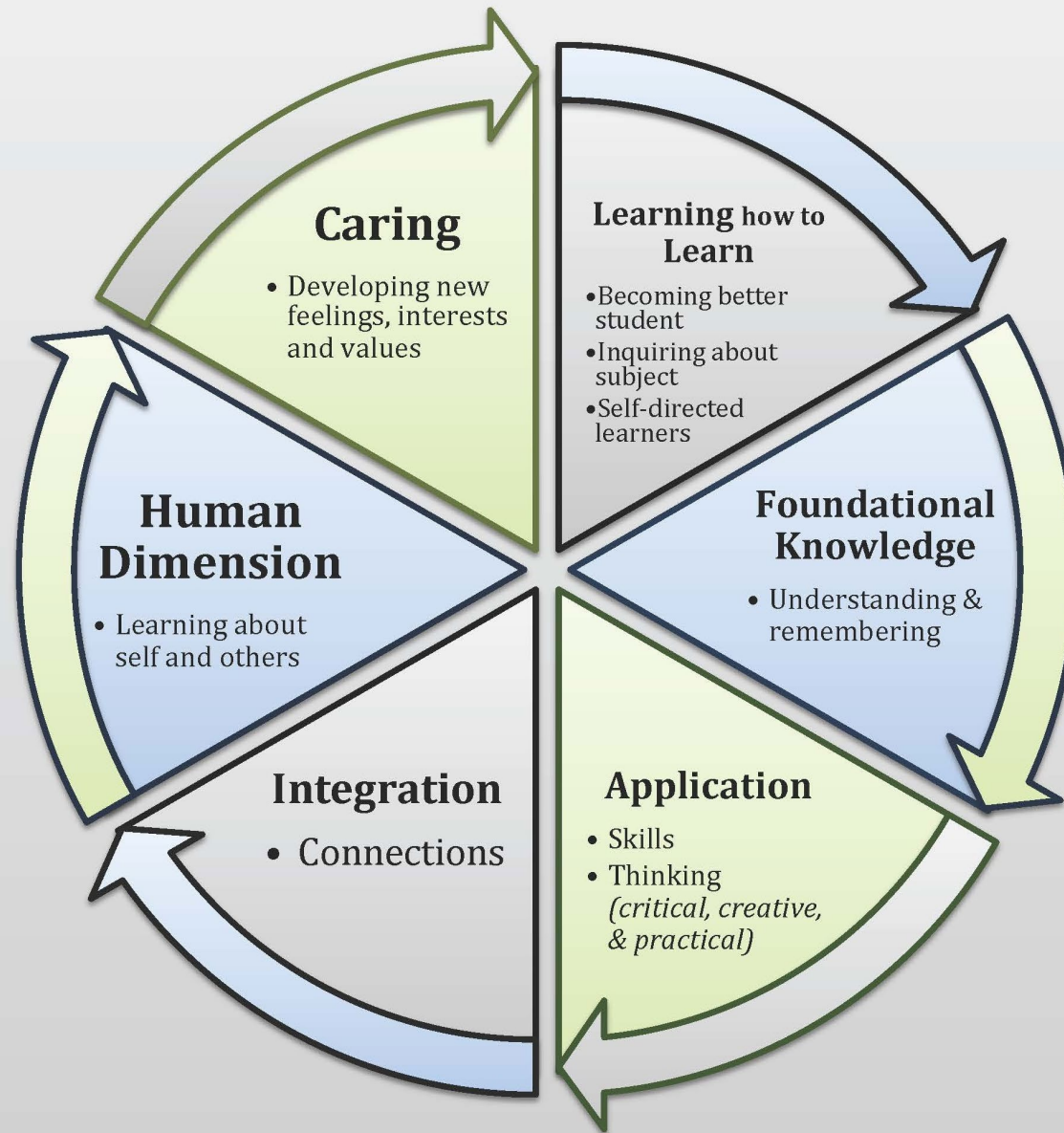
An educational technique that replaces or amplifies real experiences with guided experiences that evoke or replicate substantial aspects of the real world in a fully interactive manner (Gaba, 2004).

Simulation



Taxonomy of Significant Learning

(Fink 2003)



Simulation Creation

- ▶ Formative or Summative
- ▶ Goal / Outcome
 - ▶ I want them to learn to....
 - ▶ I want them to demonstrate....
- ▶ Environment
- ▶ Conditions
- ▶ Presentations
- ▶ Distractions
- ▶ Time

Debriefing



Debriefing

▶ John Dewey

Experimentalism

“To reflect is to look back over what has been done so as to extract the net meanings which are the capital stock for intelligent dealings with further experiences.” 1938

▶ Jean Piaget 1896 - 1980

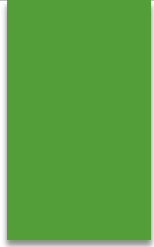
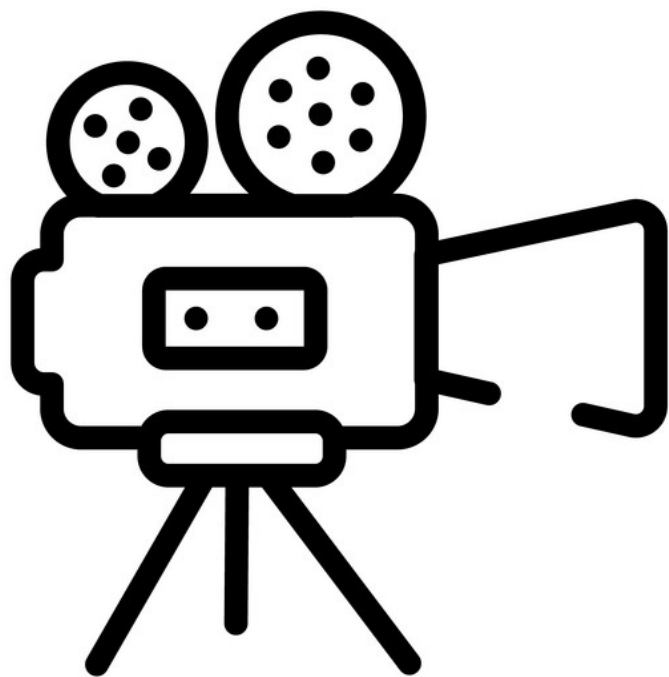
Constructivism: People produce knowledge and form meaning based upon their experiences.

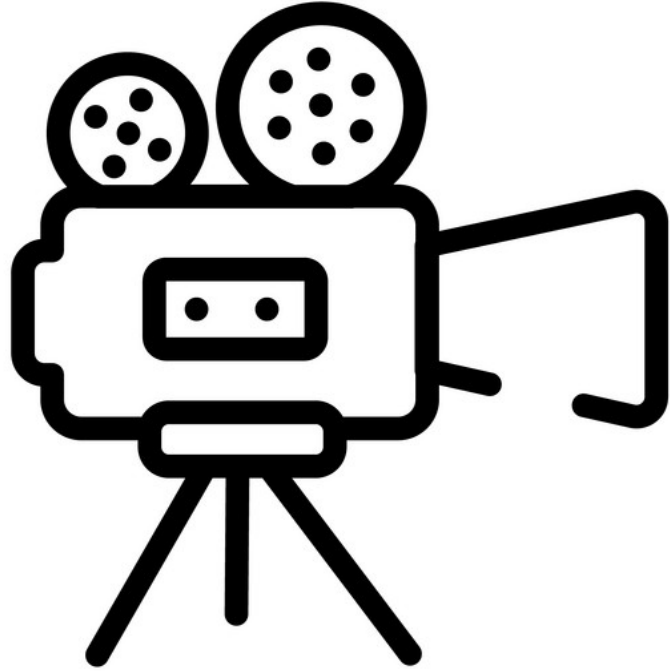
Accommodation: reframing world and new experience into the mental capacity already present.

Assimilation: incorporate new experiences into old experiences.

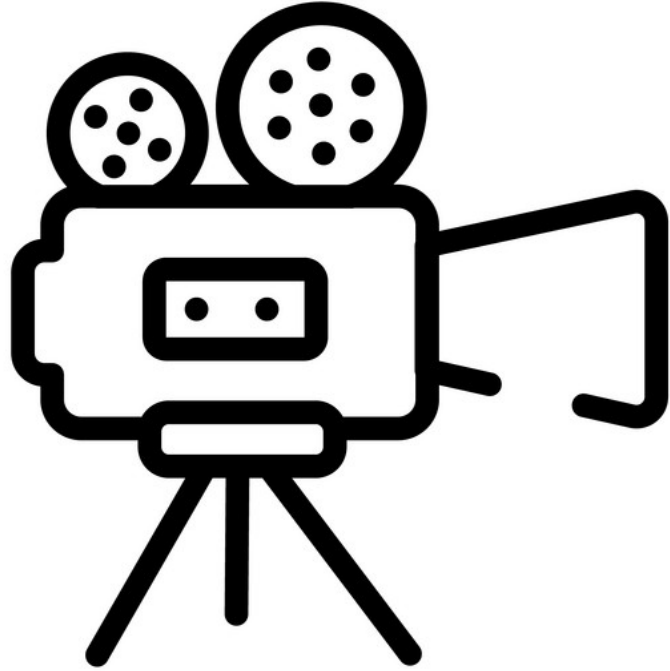
Interdisciplinary Simulation





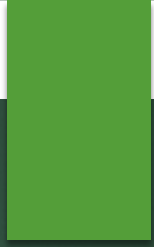


- Debriefing
 - Learner guided / self reflective
 - Can be replayed
- Documentation of performance



- Debriefing
 - Learner guided / self reflective
 - Can be replayed
- Documentation of performance

- Caution with Student Privacy rights



Healthcare Simulation

Dictionary

Second Edition (2.1)



[Healthcare Simulation Dictionary \(ssih.org\)](http://ssih.org)



Thank You

PATRICIA TRITT, RN, MA

TECHNICAL CONSULTANT

COAEMSP

[PAT@COAEMSP.ORG](mailto:pat@coaemsp.org)

DENNIS EDGERLY, M.ED, EMTP

DIRECTOR EMS ACADEMY

ARAPAHOE COMMUNITY COLLEGE

[DENNIS.EDGERLY@ARAPAOE.EDU](mailto:dennis.edgerly@arapahoe.edu)