

The Seven-Level Outcomes Model¹

CE Outcomes Levels	Value and Limitations
Level 1 – Participation Involves registration data	 Tracks demographic information and participation No insights into the value of the activity and its impact on learners
Level 2 – Satisfaction Involves participant evaluation questions	 Measures variables related to faculty, instructional design, implementation, and subject matter Provides limited value in describing the impact of the learning activity
Level 3a – Learning: Declarative Knowledge (knows) Includes post-tests	 Participants are tested based on the learning objectives In the absence of a pre-test, there is no guarantee that the learning occurred as a result of the activity
Level 3a – Learning: Procedural Knowledge (knows how) Includes pre-/post-tests, case based assessment	 Provides immediate feedback on what learning (knowledge, attitudes, skills) has occurred at the time of a learner's participation in an activity May not necessarily predict retention of the learning or change in performance
Level 4 – Learning: Competence (shows how) Includes case based-assessment and commitment to change measures	 Measures application of learning to practice in educational setting Intent to change has high correlation with actual behavior change Learning may or may not lead to actual behavior change
Level 5 – Performance (does) Follow-up assessment of practice change involving post-activity surveys, and quality and utilization measures, including chart reviews, electronic health records, health plan data	 Measures whether the performance changes identified by learners at the time of the activity were made Provides rich information about intended as well as unintended consequences of CME Post-activity surveys tend to be subjective. However, in absence of actual observation of performance in practice, this information serves as a surrogate marker

	that is indicative of actual change.
	• Limits of objective measures include resource intensive (chart reviews), lack of standardization and problem with translating measures to computer language (EHRs), and May be difficult to distinguish learners' data in the context of a large practice group (health plan data)
Level 6 – Patient Health Assesses change in patient health status using actual patient data	 Tracks net effect of practice change on target populations
Level 7 – Community Health	 Tracks net effect of practice change on target populations
Assesses progress toward ultimate goal of improved community/population health	
	 May take long time periods to reflect change in health status
	 Change may be hard to measure or obscured by co- morbidity

1. Based upon: Moore DE Jr, Green JS, Gallis HA. Achieving desired results and improved outcomes: integrating planning and assessment throughout learning activities. *J Contin Educ Health Prof.* 2009;29(1):1-15.

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