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Evaluation Principles and Implentation for Performance Improvement

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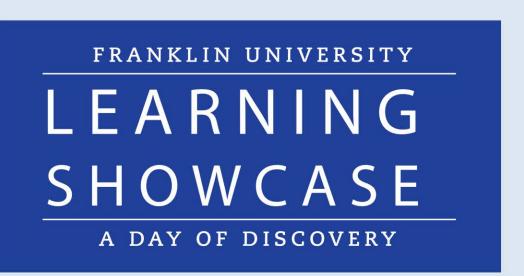
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Evaluation Principles and Implementation for Performance Improvement



Younghee Jessie Kong Ph.D. International Institute for Innovative Instruction, 08/11/2016

Abstract

Many organizations spend a lot of money to provide training courses or programs to improve their performance in today's competitive environment. Therefore, evaluation plays a critical role in making judgments about the value or worth of a course or a program that provides solutions for improving the performance of programs and organizations. However, most organizations do not actually conduct effective evaluations of their training programs due to lack of professional knowledge and skills in training evaluation as well as lack of evaluation resources and instructions. This poster is to introduce fundamental theories and models for summative evaluation and provide practical guidelines for conducting an evaluation in an appropriate way. More specifically, this poster 1) explores major evaluation models and theories emerged in organizations, 2) identify major evaluation tasks and activities required in each major phase of an evaluation process, and 3) describes appropriate techniques and tools that are derived from evaluation theories and models to complete each evaluation task and activity. This poster is designed to inform college faculty who teach an introductory level evaluation course or performance professionals who want a solid conceptual grounding in evaluation and a guide for applying such concepts in their own work.

Why Evaluate?

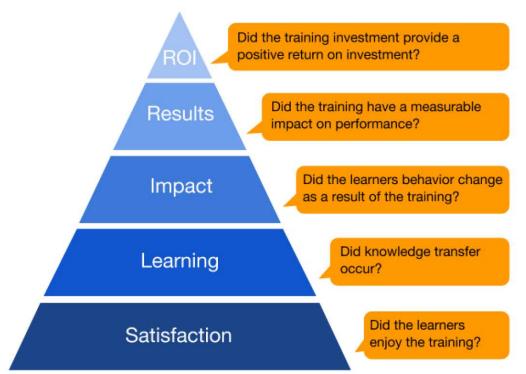
- **Decision Making:** training effectiveness, drivers and barriers for performance improvement, program/course revision, personnel decisions, etc.
- Feedback: feedback to course designers, trainers, or trainees
- Marketing for the training programs (Kraiger, 2002)

Evaluation Models

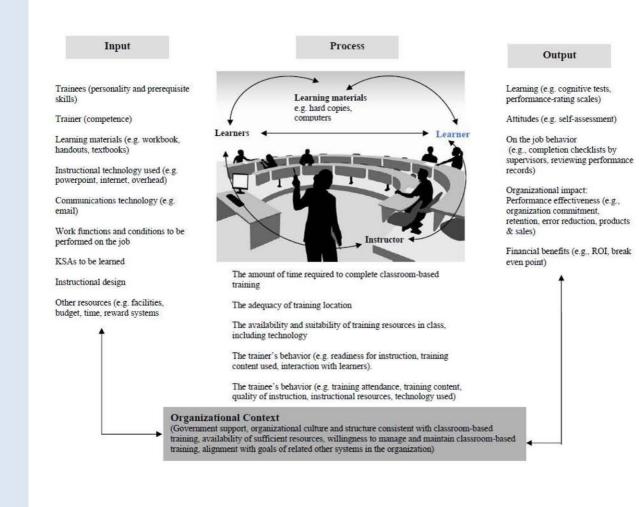
Kirkpatrick's Four-Level of Evaluation



Philips' Five-Level of Evaluation & ROI



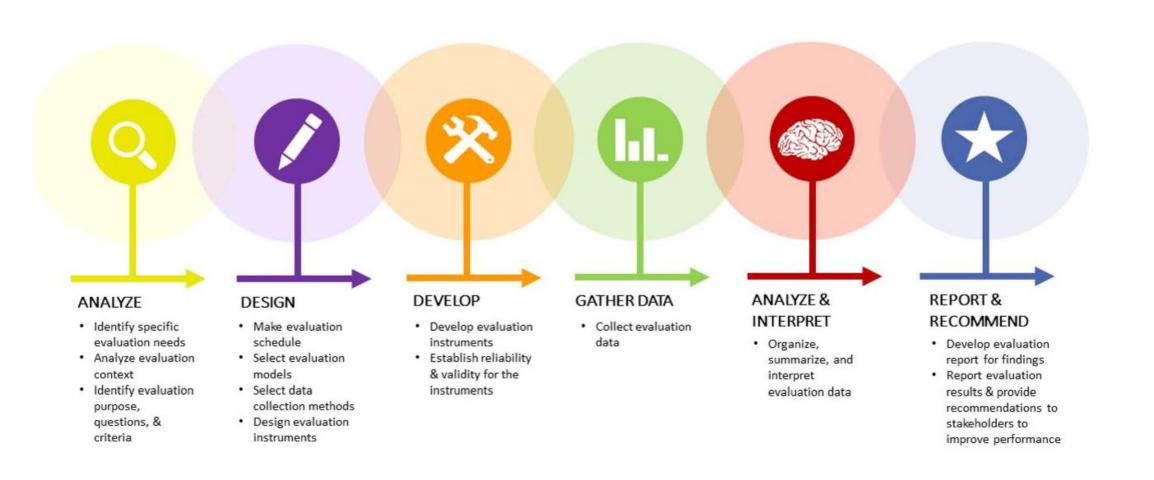
System-based Model (CIPP Model)



Fitzpatrick, Sanders, & Worthen's **Evaluation Approach**

- Clarifying the evaluation request and responsibilities
- Setting boundaries and analyzing the evaluation context
- Identifying and selecting the evaluation questions and criteria
- Planning how to conduct the evaluation
- Collecting evaluation information
- Analyzing and interpreting evaluation information
- Reporting and recommending the results of evaluation

Generic Evaluation Process



Phase 1: Needs Analysis

- Identify specific evaluation needs.
- Identify the organizational goals.
- Identify the organizational needs and/or gaps.
- Identify stakeholders and their expectations for evaluation.
- Analyze resources and capability that can be committed to the evaluation E.g., employees needed, hour estimates, types of tools and technologies).

Observation Methods Participant Observation

Nominal Group Technique

Critical Incident Techniqu

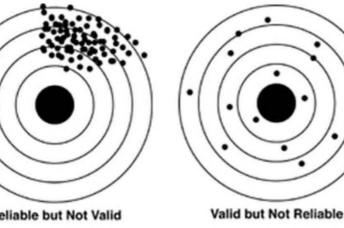
Norm-Referenced Tes

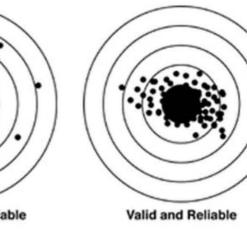
Artifacts & Work Products

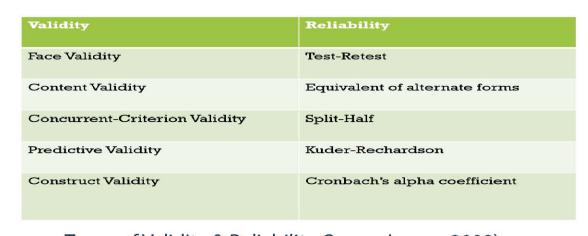
- Analyze the evaluation context.
- Identify evaluation purpose, questions, and criteria.

Phase 2: Design

- Select/modify appropriate evaluation models for your evaluation tasks.
- Make an evaluation schedule including:
 - Evaluation timeline from beginning to end.
 - Development of instruments
 - Data collection, data analysis, and evaluation report
- Select appropriate data collection methods
- Design your evaluation instruments Answer
 - evaluation questions.
 - Measure learning objectives.
- Set up validity and reliability for your instrument.
 - Validity: It is valid, if the test measures what it is supposed to measure.
 - Reliability: It is reliable, if the test consistently yields the same results for a given individual.
 - what is the relationship between validity and reliability?







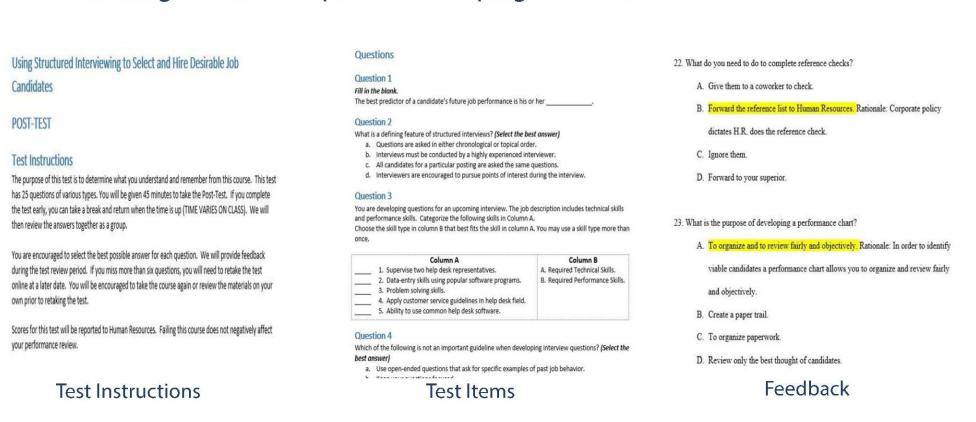
Test Instrument Design (Hale, 2011)

Data Collection Methods (Guerra-Lopez, 2008)

Types of Validity & Reliability Guerra-Lopez, 2008)

Phase 3: Development

 Develop evaluation instruments for gathering data based on your analysis and design. The following are the examples of developing test items.



Phase 4: Data Analysis

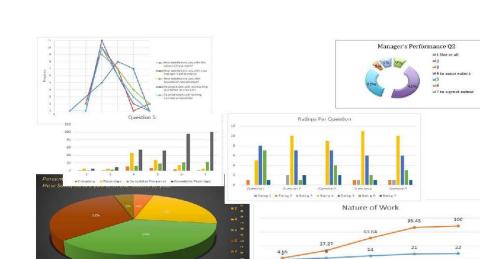
Quantitative Data Analysis

Descriptive statistics: to summarize or describe data. The most commonly used descriptive statistics are measures of central tendency, measures of variability, visual representations, and measures of relationships. Describe numbers:

- Measures of Central Tendency: Mode, Median, & Mean
- Measures of Dispersion (Variability): Range, Semi-Interquartile Range, & Standard Deviation

Graphical Representations of Data: Bar graph, line chart, pie chart, etc.

Interpreting and drawing conclusions.



Qualitative Data Analysis

- Review the interviewees' transcriptions and your notes during the interview or observation.
- Recognize recurrent themes and code them accordingly. To generate codes, you highlight words or phrases that described important themes or meaning using different colors, and labeled each code with a term in the margins of the transcripts.
- Using these codes, create categories and subcategories for each statement/term. To design a category system, categories of the same "order should have approximately the same level of abstraction. Based on the level of abstraction, create subcategories, if necessary.
- Repeatedly read each statement and endeavored to clearly define categories as well as kept codes semantically close to the terms they represented.
- After categorizing, compare all categories to find similarities, differences, and patterns among categories
- Draw conclusions (Maxwell, 2005).







Phase 5: Report & Recommendations

How do you communicate your findings with stakeholders?

 Ongoing communication with the evaluation stakeholders in each step of an evaluation process

Before the Evaluation	During the Evaluation Step 2: Check the reasons for communicating with each stakeholder.			After the Evaluation					
Step 1: List all of your evaluation's stakeholders.				Step 3: Clack the reasons for commonicating with each stakeholder		Step 4: Describe the characteristics of each stakeholder or stakeholder group.	Step 5: Given the reasons checked in Steps 2-3, and your description in Step 4, select and note appropriate format(s) for each stakeholder.	Step 6: Discuss and note timming for this communicatio n/report.	Step 7: Discuss an note resources needed for this communic on/repot.
	Include in determining the evaluation's design and implementat	Inform about specific upcoming evaluation activities	Keep informed about progress of evaluation	Inform about the program and the evaluation (build awareness and support)	Convey evaluation's results for decision making and action.	Stakeholder Characteristics (e.g., education level, their familiarity with the program and with evaluation, their role in decision making about the program, etc.)	Format	Timing	Resources
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(Preskill & Russ-Eft, 2005)

What are important considerations for developing a useful and effective evaluation report?

- Based on your stakeholders' needs and preferences, summarize:
 - Needs Analysis
 - Data Collection
 - Data Analysis & Interpretation
 - Conclusion & Recommendation

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