

"Have you ever wondered if conducting postcourse (Level 1) evaluations are worth the effort and if you should just stop using them altogether?"

Agenda

After attending this session, you will be able to:

- ✓ Use facts from from a recent research study to benchmark your organizations use of post-course (Level 1) evaluations
- Create predictive questions to include in a postcourse (Level 1) evaluation that will enable you to forecast participant learning (Level 2), training transfer (Level 3), & improved business results (Level 4)
- Calculate three predictive metrics: a learning gain score, a training transfer likelihood score, & an improved business results likelihood score

5-Level Evaluation Model

Level 1: Reaction	Degree to which participants find the training favorable, engaging, and relevant to their jobs
Level 2: Learning	Degree to which participants acquire the intended knowledge, skills, attitude, confidence and commitment based on their participation in the training
Level 3: Behavior	Degree to which participants apply what they learned during training when they are back on the job
Level 4: Results	Degree to which targeted outcomes occur as a result of the training and the support and accountability package
Level 5: ROI	Degree to which monetary program benefits exceed program costs

Katzell & Kirkpatrick

Phillips

Level 1 Evaluation Facts

83%

Organizations

evaluate some

programs

at Level 1

Source: ATD Research Study, "Effective Evaluation: Measuring Learning Programs for Success," 2019



Level 1 Evaluation Facts

54%

of all **programs** being evaluated at

Level 1

Source: ATD Research Study, "Effective Evaluation: Measuring Learning Programs for Success," 2019



Level 1 Evaluation Facts

35%

Organizations view data collected as having high or very high value

Source: ATD Research Study, "Effective Evaluation: Measuring Learning Programs for Success," 2019



Why The Disconnect?

- ✓ Level 1 evaluation data is not viewed as valuable
- ✓ Level 1 evaluation data is not systematically analyzed for trends & patterns nor used to make program comparisons
- ✓ Few L&D leaders have a specific objective in mind for collecting Level 1 data
- Many L&D professionals lack the knowledge & skills needed to create valid survey items

What's the Solution?

Include
Predictive
Questions
On Your
Level 1
Evals!



What are predictive questions?

- They forecast the results a learning program is likely to achieve
- ✓ The data collected begins to answer the question business executives & L&D professionals both want answered: "Is this program delivering value?"
- ✓ The predictions aren't proof that specific program outcomes are inevitable but rather a forecast certain results are likely (similar to a weather forecast)

Predictive Metric #1: Calculating a Level 2 Learning Gain Score

(Ask 2 parallel learning-based survey questions)



The Two Questions

How much did you know about the material taught in this program before attending?



How much do you know about the material taught in this program after attending?

No Knowledge					J	Thorough Knowledge
1	2	3	4	5	6	7

Calculating a Learning Gain Score:

- ✓ Compute an average Before score & an average After score
- ✓ Subtract the **Before** score from the **After** score
- ✓ The difference is a Learning Gain Score

Doing The Learning Gain Score Math

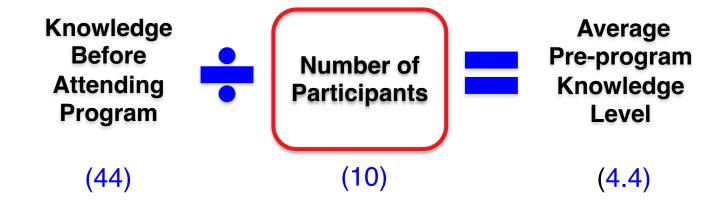
Q1

Q2

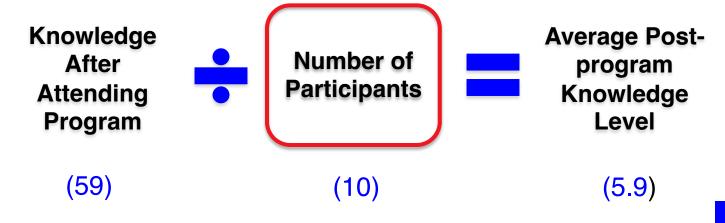
Participant number		How much did you know about the material taught in this program BEFORE attending?		How much do you know about the material taught in this program AFTER attending?		out ial n		
	017		5		5			
	020			5			7	
	003			6			6	
	014			4			7	
	025			4			7	
	006			4			5	
	027			3			6	
	018			4			6	
	019			4			5	
	010			5			5	
	V			(44)			(59)	

Doing The Learning Gain Score Math

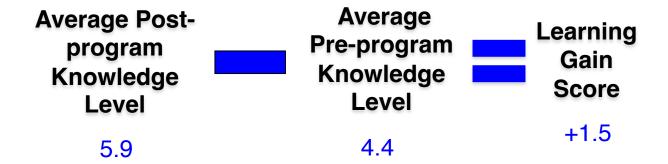
Calculation 1:



Calculation 2:



Doing The Learning Gain Score Math



Note: A learning gain score becomes more meaningful when it's compared with either a norm or a standard.

Predictive Metric #2: Calculating a Level 3 Training Transfer Likelihood Score

(Ask 5 training transfer survey questions)



Question 1 of 5: Relevance

How relevant was this program to you and the tasks and requirements of your work?



Question 2 of 5: Confidence

How confident are you in your ability to apply the new information you learned in this program back on the job?

Not at all Confident

1 2 3 4 5 6 7



Question 3 of 5: Opportunity To Apply

How likely are you to have an immediate opportunity to apply the new information you learned in this program back on the job?

Not at all Likely						Extremely Likely
1	2	3	4	5	6	7

Question 4 of 5: Manager Support

How likely is your manager to actively engage you in a discussion regarding your use of the new information you learned in this program?

Not at all Likely						Extremely Likely
1	2	3	4	5	6	7



Question 5 of 5: Obstacles

What obstacles, if any, might keep you from applying what you learned in this program back on the job?_____



Calculating a Training Transfer Likelihood Score:

- ✓ Compute a total score for each of the first 4 training transfer predictive questions
- ✓ Sum the 4 total scores together & divide the result by the number of program participants. Next, divide the resulting number by 4
- ✓ The result is a Training Transfer Likelihood Score

Doing the Training Transfer Likelihood Score Math

Q1

Q2

Q3

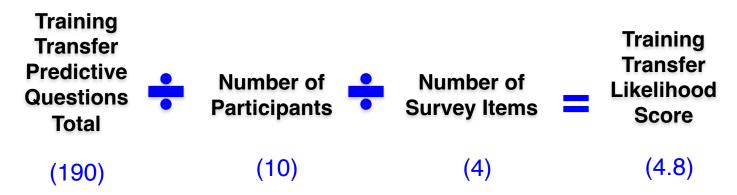
Q4

Participant Number	Relevancy	Confidence	Opportunity to Apply	Manager Support	
011		7	7	1	
011	2	/	/	4	
022	7	5	6	4	
013	4	4	4	5	
004	6	6	4	2	
003	4	5	5	6	
025	4	5	3	5	
027	6	4	4	3	
012	7	7	2	4	
006	4	4	5	5	
014	5	O	4	6	
Total	49	53	44	44	

Doing the Training Transfer Likelihood Score Math*



Calculation 2:



Training Transfer Likelihood Score Ranges

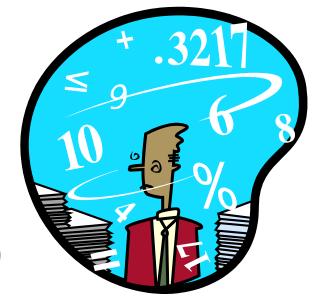
- ✓ A score of 6> indicates that program training transfer is likely to be high
- ✓ A score between 3 & 6 indicates that program training transfer is at risk
- ✓ A score of 2< indicates that training transfer is likely to be low

What if your training transfer likelihood score is below 6?

Analyze the obstacles identified in question 5 to identify where targeted corrective actions can be taken to increase training transfer



Identifying obstacles to training transfer is only half your job; making sense out of them is the other half!



Source: Ken Phillips



How to make training transfer obstacles actionable

- ✓ Analyze the obstacles for themes & patterns
- ✓ Consolidate all like-minded obstacles into clusters
- ✓ Count the number of obstacles in each cluster
- ✓ Place the clusters into numeric order from highest to lowest

Obstacles to Training Transfer

11*Management

Examples:

"Daily shifting of priorities"

"Management does nothing about suggestions"

"Employee/leadership buy in not there"

10 Policies and procedures

Examples:

"Outdated policies and procedures"

"Procedures being done differently from what policy states"

"Lack of consistency within the department"

Communication

Examples:

"Inconsistent communication"

"Inter-department communication lacking"

"Receiving different messages"

7 Personal

Examples:

"Very new to job"

"Trying to understand job culture"

"Trying to learn functions of job"

6 Lack of time or resources

Examples:

"Department is understaffed"

"Everyone is too busy"

"Not enough time and resources"

4 Technology

Examples:

"Not enough automation"

"Technology is very outdated to perform job duties"

4 Teamwork

Examples:

"Not enough effort from other departments"

"There is unnecessary competition within the department"

3 Change

Examples:

"Resistance to change"

"Old mindsets"

* Frequency of comments

Predictive Metric #3: Calculating a Level 4 Improved Business Results Likelihood Score

(Ask 2 parallel business results survey questions)

Level 4 Business Results Questions

How likely are any of your department's crucial business metrics to improve because of you applying the information you learned in this program?



How confident are you in your response to the previous question where 0% equals no confidence and 100% = high confidence?_____

Calculating an **Improved Business** Results Likelihood Score:

- ✓ Multiply each participant's response to question 1 by their confidence percentage from question 2 & divide the total by 100
- ✓ Add the adjusted responses and divide the total by the number of participants
- ✓ The result is an Improved Business Results Likelihood Score

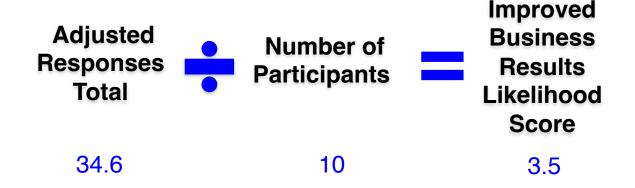
Doing the Improved Business Results Likelihood Score Math

Q1

Q2

Participant Number	Likely Improvement in Business Results	Confidence Level of Response	Adjusted Response
011	2	60	1.2
022	/	90	6.3
013	4	35	1.4
004	6	100	6
003	4	70	2.8
025	4	90	3.6
027	6	50	3
012	7	75	5.3
006	4	50	2
019	5	60	3

Doing the Improved Business Results Likelihood Score Math*





Improved
Business
Results
Likelihood
Score Ranges

- ✓ A score of 6> indicates that an improved business result is highly likely
- ✓ A score between 3 & 6 indicates that an improved business result is at risk
- ✓ A score of 2< indicates that an Improved business result is unlikely

Free M&E Articles

- "Eight Tips on Developing Valid Level 1 Evaluation Forms"
- "Predictions and Probabilities in Training Evaluation."
- "Level 1 Evaluations: Do They Have a Role in Organization Learning Evaluation Strategy?"
- "Developing Valid Level 2 Evaluations"
- "Writing Test Questions That Actually Measure Something"
- ✓ Level 3 Evaluations Made Simple, Credible, and Actionable
- "Capturing Elusive Level 3 Data: The Secrets of Survey Design"
- "Business Results Made Visible: Designing Proof Positive Level 4 Evaluations"

Available on www.phillipsassociates.com

2 Free M&E ebooks



New Rules, New Tools

An overview of Predictive Learning Analytics™, a revolutionary, new method for boosting training transfer



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Training magazine's







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