Measuring Training Effectiveness

The Trinity Health Journey

Sergio Alfaro and Ed Thomas Presented by: Sergio Alfaro 2023 Revenue Cycle Conference

hfma

lor-

.....

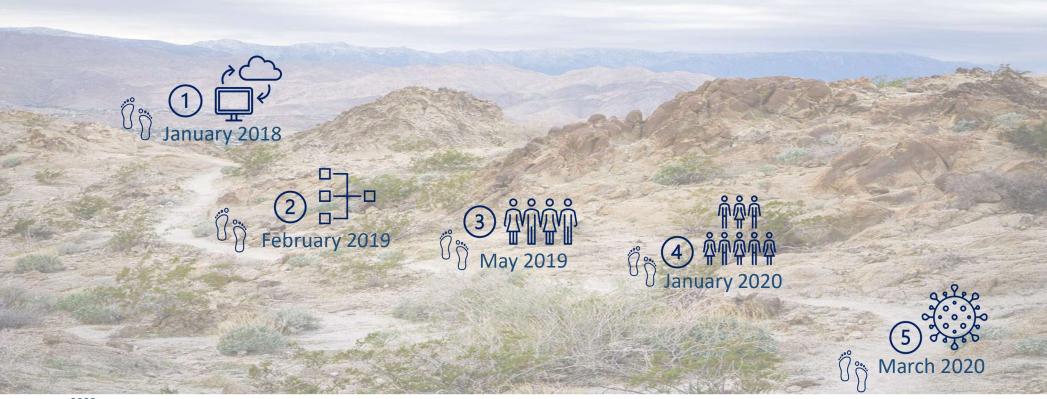
Objectives

Form an Understanding of

- The Trinity Health Journey
- What is Possible Using our Dashboard
- Business Case for Training and Organizational Performance
- Journey Map to Achieve Best Practice

hfma⁻ Revenue Cycle Conference

The Trinity Health Journey





The Trinity Health Journey

March 2020



ິ່ິິີ <mark>ີີ Transparency</mark> Accountability Line of Sight **Stakeholder Reporting Visual Management**

Performance Evaluation Coaching

2023 Revenue Cycle Conference hfma

HFMA Revenue Cycle Conference 2023 4

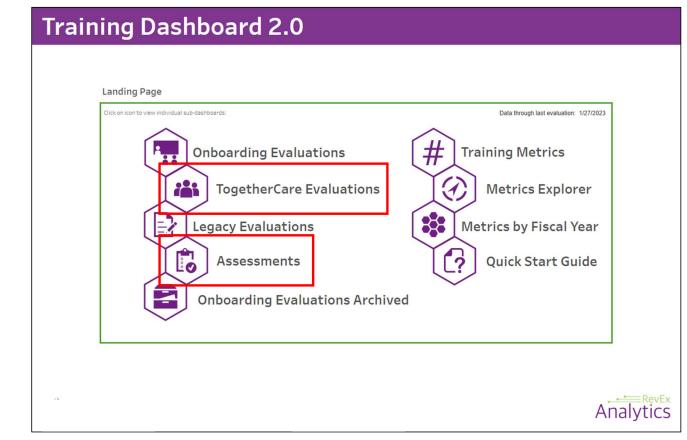
(3) Utilize existing

ື່ [™] technology

What is Possible using our Dashboard

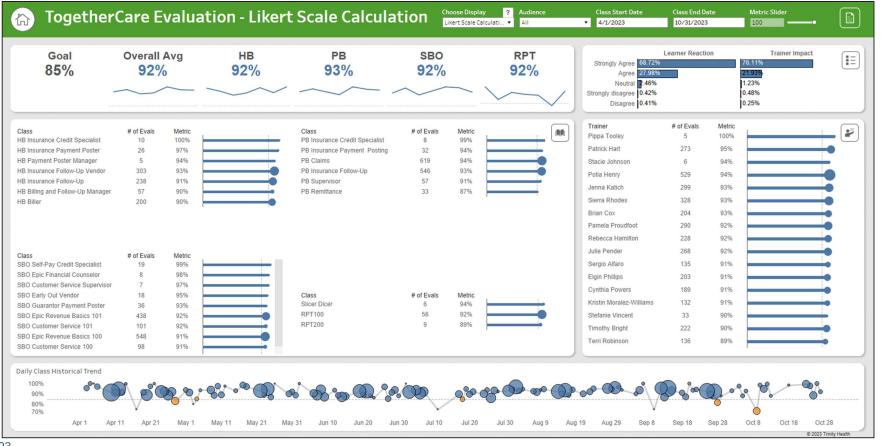
hfma⁻ Revenue Cycle Conference

Training Dashboard 2.0



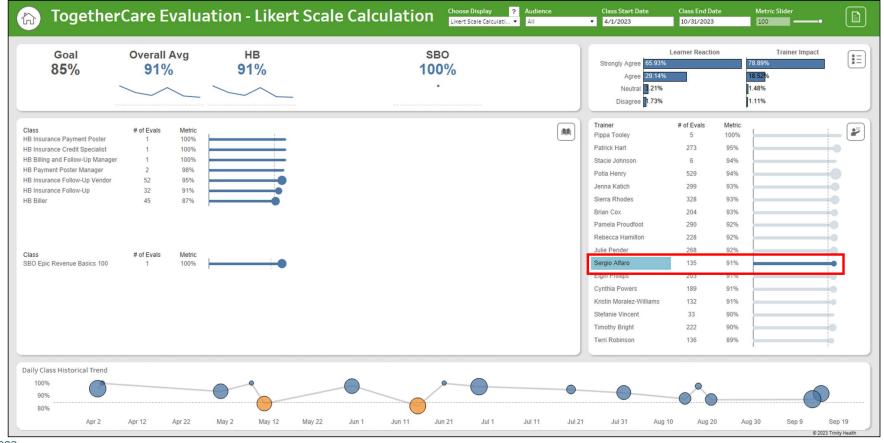
hfma Revenue Cycle

TogetherCare Evaluation Page



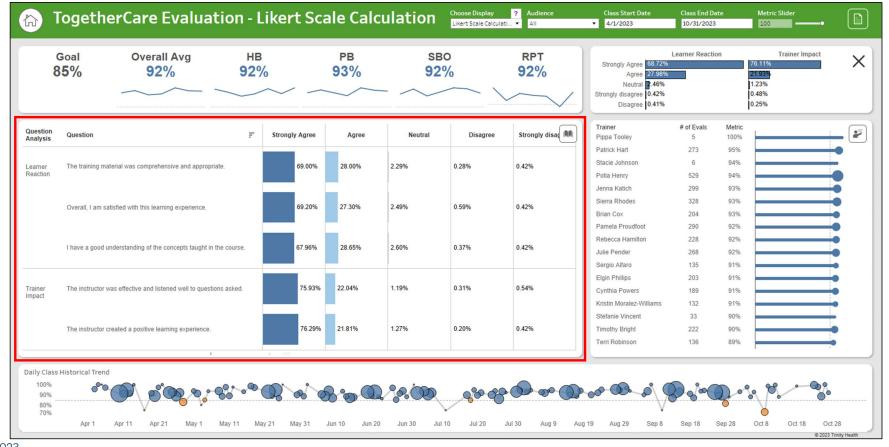
hfma Revenue Cycle

TogetherCare Evaluation Page – Trainer Selected



hfma Revenue Cycle

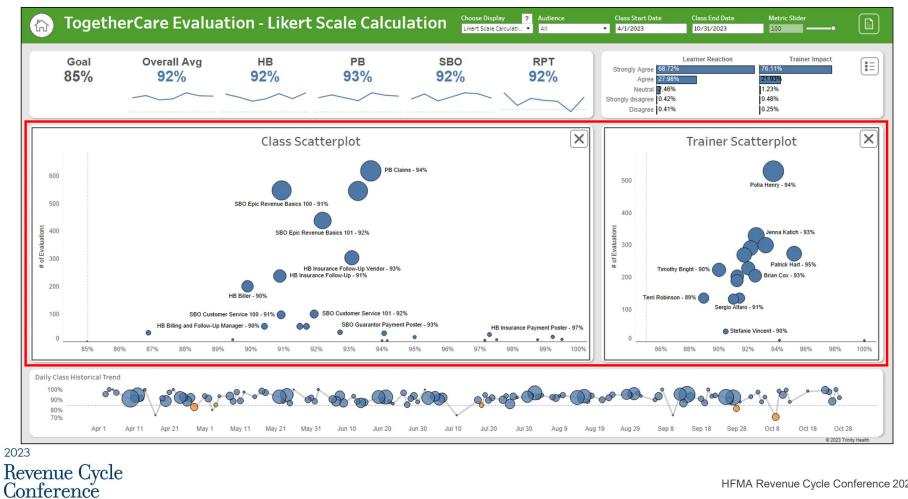
Question Analysis



hfma Revenue Cycle

Scatterplots for Class and Trainer

hfma

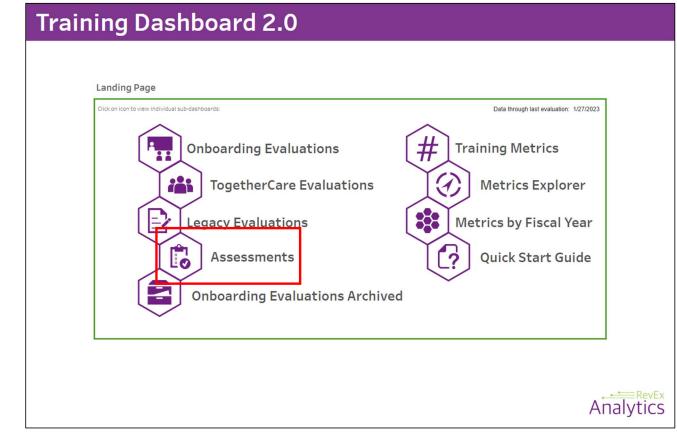


Free-Text Responses

	TogetherCare E	valuati	on - Likert Scale Calculat	Choose Display ? Audience Class Start Date Class End Date Likert Scale Calculati • Auli • 4/1/2023 10/31/2023	Metric Slider	[]
Class Cat		Trainer	Question			
(AII)	▼ (AII)	▼ (AII)	▼ (AII)		•	
Toget	therCare Free-Text Respons	ses				
Class	Trainer	Date	Question	Answer		
			asked.	Strongly Agree		
			The training material was comprehensive and appropriate.	Agree		
				Strongly Agree		
			What did you enjoy most about the class?	Null		
				All of iti! JOB Well DONE!!!		
				n/a		- 1
				Sergio took the time to address concerns even though there was a time crunch.		
				Sergio was amazing!		
				Sergio was great. Very upbeat and kept things moving along.		
				The information and the interaction.		
				The instructor and the way the material was presented was very engaging. It was easy to follow along and to stay focused.		
				The interactive learning, when we're able to actually use EPIC for training		
				The trainer - he kept us motivated and on track		
				The trainer!		
				trainer was great!!!!		
				was very specific and professional		
		9/15/2023	I have a good understanding of the concepts taught in the course.	Agree		
			If you selected Disagree or Strongly Disagree for any of the items above, please let us know how we can improve the traini	N/A		
			Overall, I am satisfied with this learning experience.	Agree		
			The instructor created a positive learning experience.	Agree		
					© 2023 Trinity Health	

hfma Revenue Cycle

Assessments Page



hfma Revenue Cycle

Assessment Scores Page



hfma Revenue Cycle

Assessment Scores Question Analysis Page

	pic HB Question Ana	alysis	Start Date 8/1/2022	8/1/2022 2/6/2023 TC Epic HB PBS New Hire Post Assessment		
	89%	92%	90	%	TC Epic HB TC Epic PB TC Epic SBO Legacy Assessments	
	HB Biller	HB Insurance Follow-Up	HB Insurance F	Payment Poster	HB Payment Poster Manager	
Question 1	83%	85%	97	%	50%	
Question 2	77%	68%	88	%	100%	
Question 3	80%	86%	90	%	50%	
Question 4	78%	65%	85	%	67%	
Question 5	65%	72%	66	%	67%	
Question 6	85%	75%	79	%	100%	
Question 7	94%	63%	97	%	100%	
Question 8	86%	79%	10	0%	100%	
Question 9	40%	68%	97	%	50%	
Question 10	73%	80%	94	%	100%	
Question 11	75%		94	%		
Question 12	82%		78	%		
Question 13	80%	85%	74	%		
Question 14	76%	93%	94			
Question 15	86%		60	1%		
Question 16	79%	60%	~			
Question 17	93%	87%	Tru	e or False: All EOB/Remits n	need to be manually reviewed by a user.	
Question 18	74%	88%				
Question 19	89%	59%		se - 63%		
Question 20	72%	89%	Tru	e - 37%		
Question 21	72%	86%				
Question 22	84%	96%				
Question 23	81%					



Business Case for Training and Organizational Performance

hfma⁻ Revenue Cycle Conference

The Data Trifecta



2 Validity

Accuracy of Measurement Crosschecking Information Quantitative against Qualitative (3) **Time** Recency of Measurement impacts results reported Recency of Measurement impacts data integrity



4 Generalizability

Statistical Inference

Applicability of measurement to achieving a desired outcome

hfma Revenue Cycle Conference

The Kirkpatrick Model is an internationally recognized tool for evaluating and analyzing the results of educational, training and learning programs.

It consists of four levels of measurement.

(1) **Reaction** Enjoyment, Relevance and Engagement 2 Impact Knowledge Transfer Degree of knowledge, skill, and ability acquired by attendance 3 Behavioral Change

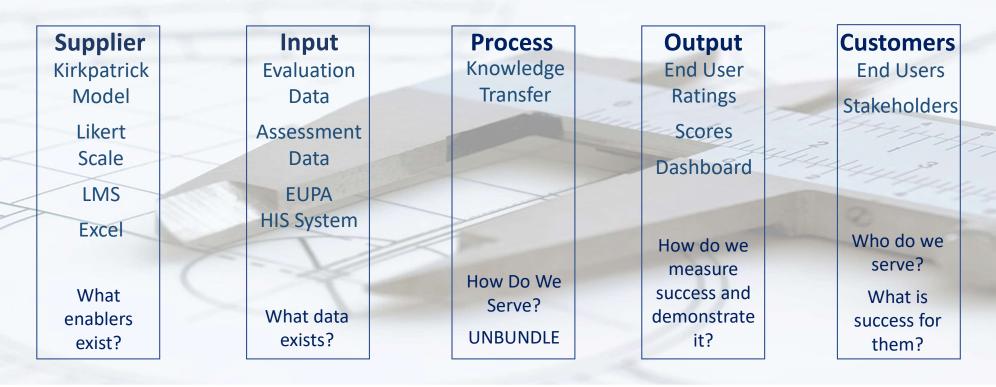
Degree to which learning is applied to specific Job Tasks) Return on Investment

Impact against desired business objectives

Statistical inference becomes harder to achieve with each level

hfma Revenue Cycle

SIPOC but we used COPIS

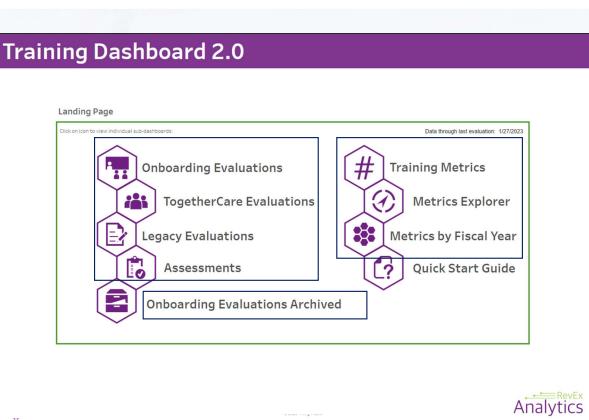


hfma⁻ Revenue Cycle Conference

Data Organization

Effectiveness
 Journey Map
 Efficiency

(Future Discussions)





Journey Map to Achieve Best Practice

hfma⁻ Revenue Cycle Conference

A Shared Journey: Level One Measurement

Construct Measured Learner Reaction

Instrument: Evaluation

Use quantitative questions which focus on a single idea, and a Likert Scale requiring selection of a level of agreement.

And, use qualitative questions which are open ended and require a narrative response.

3 Validation

Response comparison

Eval	uation: Quantitative						
Evaluation T	Question Text	s	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Learner Reaction	I have a better understanding of the concepts taught in this course.		76.7%	21.8%	0.7%	0.1%	0.8%
	Overall, I am satisfied with this learning experience.		76.3%	22.0%	0.8%	0.0%	0.9%
	The instructor-led review games were presented in a manner that my attention.	ept	72.1%	25.3%	0.9%	0.2%	1.4%
	The training material was comprehensive and appropriate.		76.5%	21.8%	0.9%	0.1%	0.7%

Evaluation: Qualitative



hfma Revenue Cycle

A Shared Journey: Level Two Measurement

Construct Measured Trainer Impact

Instrument: Evaluation

- Same method and design as Level One only the quantitative questions change.
- With time we learned our qualitative responses fully informed us,
- and, avoid rater fatigue.

Validation **Response comparison**

Evaluation: Quantitative Trainer 20.3% 0.6% 0.0% 0.8% 78.3% Impact Question The instructor encouraged guestions and participation during 24.9% 0.9% 1.4% instructor-led review games The instructor explained concepts clearly 78.2% 20.4% 0.6% 0.1% 0.7% 78.2% 20.4% 0.6% 0.1% 0.7%

Evaluation: Qualitative

The instructor responded effectively to guestions asked

Question Text If you did not select Strongly Agree or Agree for any of the above questions, please tell us how we can improve the traini.	Answer \$+ I selected strongly agreed	1
What did you enjoy most about the class?	how clear everything is i enjoyed the class and believe this is going to be a job i really enjoy. Im looking forward to getting my equipment set up so i can fully participate in the onbox I loved training, I learnt a lot today and enjoyed my time in Cynthia powers training today. The energy of the trainer. It was very welcoming.	
	Very good training happy to join with your team	k



A Shared Journey: Level Three Measurement

(1) Construct Measured	PBS New Hire Post As	ssessment	TC Epic HB	TC Epic PB	TC Epic SBO	Legacy Asse	ssments SB	BO Bad Debt Vendors
Knowledge Applied	84%	1	91%	94%	90%	90%	$\mathcal{D}($	90%
2 Instrument: Assessment								
Outcome based	PB Claims	PB Claims Supervis	PB Insurance Credit Specialist	PB Insurance Follow-Up	PB Insurance Follow-Up Supervisor	PB Insurance Payment Poster	PB Payment Posting Supervisor	PB Remittance
Ordinal rating scale								
Measures proficiency	95%	97%	90%	93%	91%	93%	87%	91%
Realistic Job Preview: Simulations				2				0
3 Validation Holistic review of assessment outcomes Face: assessment appears like it will measure adeq Content: extent to which a measure represents all Construct: effectiveness in measuring concepts Criterion: current and future operationalization of	facets		Genter 1 Genter 1 Genter 3 Genter 3 Genter 4 Genter 4 Gen	2 05 10 Elizer 20 5 20 5 2	La Instant Filler (J) Pla Harmonia Harmonia	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Harr	Annual Annua Annual Annual Annua

hfma Revenue Cycle Conference

A Shared Journey: Level Four Measurement

Construct Measured Outcomes Achieved

2) Instrument: Evaluation of Value

Outcome based

Change in current state from historical trended performance

Performance calculations in comparison to post intervention performance

3 Validation

Multivariate analysis isolating a single causal factor in causing a statistically significant change

FY 23								
Row Labels	July	August	September	October	November	December	Grand Total	
	0.44%	0.54%	0.68%	0.60%	0.66%	0.64%	0.59%	
	1.34%	2.29%	1.68%	1.21%	0.71%	1.04%	1.35%	
Georgia	1.86%	1.89%	2.14%	2.38%	1.16%	1.40%	1.78%	
	0.58%	0.55%	0.59%	0.50%	0.61%	0.51%	0.55%	
∎Indiana	1.03%	1.51%	1.03%	1.00%	1.04%	0.92%	1.09%	
	0.54%	0.62%	0.76%	0.88%	0.49%	0.52%	0.63%	
Marvland	1.21%	1.14%	1.19%	1.05%	1.01%	0.94%	1.09%	
∋Michigan	0.53%	0.66%	0.65%	0.66%	0.69%	0.69%	0.65%	
Mid-Atlantic	1.03%	0.96%	0.95%	0.77%	0.31%	0.38%	0.72%	
New York - Albany	0.80%	0.74%	0.79%	0.76%	0.83%	0.75%	0.78%	
New York - Syracuse	0.81%	1.00%	0.90%	0.80%	0.68%	0.84%	0.83%	
Ohio	1.13%	1.19%	1.09%	1.18%	1.10%	1.06%	1.13%	
Oregon - Idaho	0.95%	1.08%	0.94%	1.21%	1.04%	0.90%	1.02%	
THONE	0.49%	0.47%	0.57%	0.56%	0.59%	0.36%	0.50%	
Trenton	0.37%	0.53%	0.20%	0.23%	0.24%	0.49%	0.34%	
Grand Total	0.76%	0.84%	0.83%	0.80%	0.73%	0.69%	0.77%	



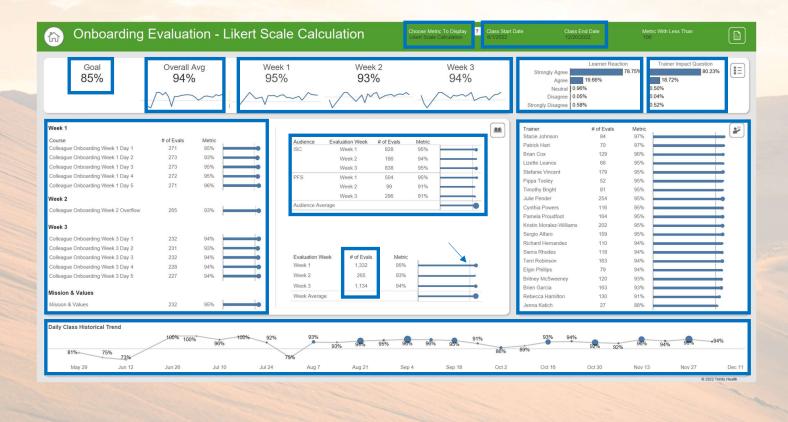
Basic Visual Management

1 Target Performance

2 Current Performance

3 Outcome Calculation Likert Averages Net Promoter Time Period Level One: Reaction Level Two: Impact

4 Line of Sight
5 N (larger is better)
6 Historical Trend



hfma Revenue Cycle

In Summary: Application of Today

① Evaluation: Level One ☆☆☆☆☆ The training material was comprehensive and appropriate.

2 Evaluation: Level Two ななななか The instructor explained concepts clearly.

3 Assessment: Level Three

What does SIPOC stand for?

	Supplier	Input	Process	Output	Customer
4	Application: Lev	vel Fou	r		
	Training Effectiveness Repo	ort July 1 st	through July 31 ^{st,} 2023		
	Reaction Average Sc	ore			
	Impact Average Sc	ore			
	inipact Average Sc				
	Assessment Average Sc				



In Summary: Our Journey

Once you know what you have, use that We started with paper evaluations paper assessments manual scoring scanned and uploaded daily from 3 different locations

Then...

I put those into Excel and created a Visual Management dashboard Kind of... We had no standard content We had no Epic Data Analytics was 18 months away



We took one step at a time...

and hope that you do to.

hfma Revenue Cycle

Your Toolkit

Trinity Health: Website

SIPOC: Video: <u>SIPOC Diagram Simplified</u> Adriana Girdler Introductory/ Tutorial
Survey Data Measurement, Validity, and Reliability: <u>Reliability in Survey Design</u> Dr. Jessica Uriarte Wright
Kirkpatrick Model: Video <u>Kirkpatrick's 4 Levels of Evaluation in One Minute</u> Zeroe Gravity
Visual Management: Resources: <u>Agency for Healthcare Research and Quality (AHRQ) Visual Management</u>
Formal Education/ Certification: <u>Lean Manufacturing - Nexus at Michigan Engineering (umich.edu)</u>
Contact: Email: Sergio.Alfaro@trinity-health.org and Edward.Thomas@trinity-health.org

- A

