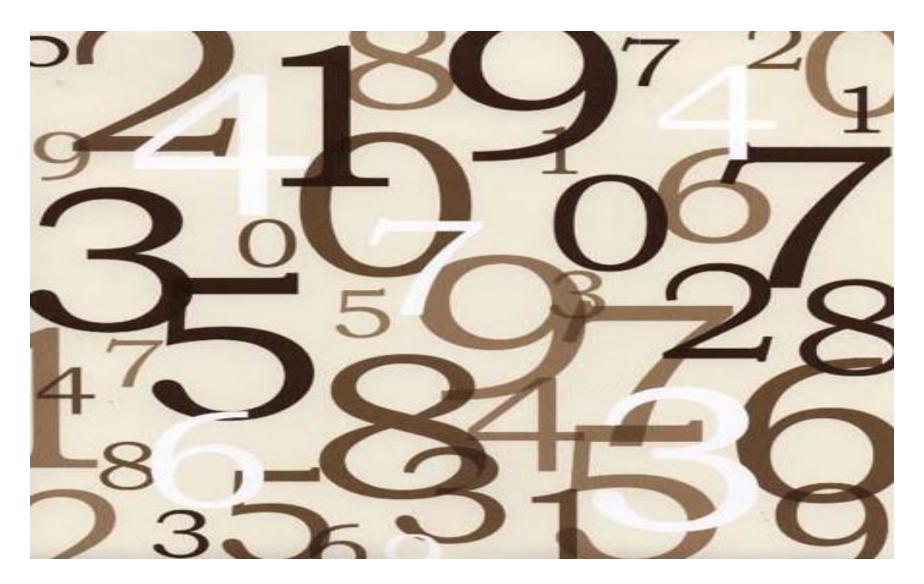
The Use of Standardized Test Score Reports to Inform Instruction Using the Deming Model

Mary Anne Schultz, PhD, MBA, MSN RN Department Chair, California State U, San Bernardino

> Geri Chesebrough, MSN, RN, CNE Ascend Learning

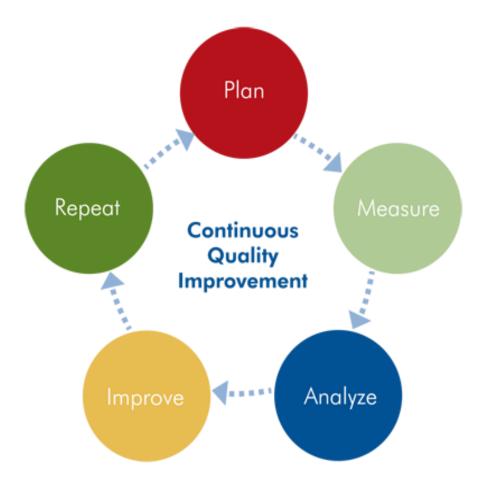
Making Sense of the Data



Evaluation of Interventions

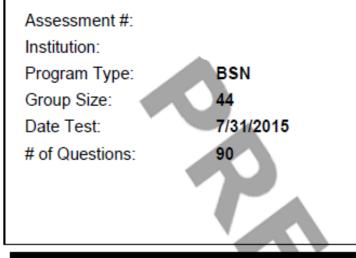
- Compare the standardized assessment results from previous term to the current term where the changes were implemented.
- 2. Look at subsequent courses to determine if the interventions were effective in improving student performance in identified areas of weakness.

Deming's PDCA Cycle



Group Performance Profile RN Adult Medical Surgical 2013





Adjusted Group Score: % of Group Meeting	65.5%
Institution Benchmark:	N/A
Group National Mean:	68.5%
Group Program Mean:	67.8%
Group National Percentile Rank:	27
Group Program Percentile Rank:	31

Group Performance Summary Table

ATI Proficiency Level	Individual Score Required for Proficiency Level	% and # of Group at Proficiency Level
Level 3	81.1% - 100.0%	2.3% (1)
Level 2	68.9% - 80.0%	36.4% (16)
Level 1	56.7% - 67.8%	47.7% (21)
Below Level 1	0.0% - 55.6%	13.6% (6)
Note: ATL Droficie	nev Lovele portain	to individual

Note: ATI Proficiency Levels pertain to individual scores only. Group scores are not classified by proficiency level.

Individual Mean-	Individual Mean-
National	Program
68.3%	67.6%
% of Group Above	% of Group Above
Individual Mean-	Individual Mean-
National	Program
38.6%	38.6%

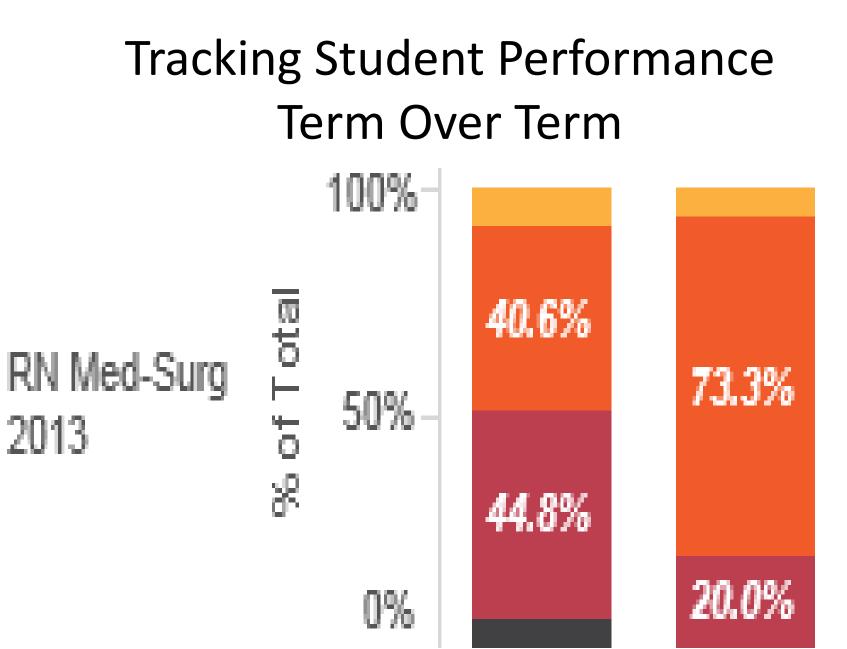
Group Performance in the Major Content Areas

	#	Group	Group Mean		Group Percentile Rank	
Sub-Scale	Items	Score	National	Program	National	Program
Safety and Infection Control	4	63.6%	N/A	N/A	N/A	N/A
Health Promotion and Maintenance	2	71.6%	N/A	N/A	N/A	N/A
Basic Care and Comfort	6	57.2%	56.0%	55.2%	54	58
Pharmacological and Parenteral Therapies	23	70.0%	71.2%	70.3%	40	45
Reduction of Risk Potential	21	60.5%	70.4%	70.3%	9	10
Physiological Adaptation	34	58.2%	66.7%	66.0%	11	13

NOTE: N/A indicates where means and percentile ranks are not presented for sub-scales with fewer than five items.

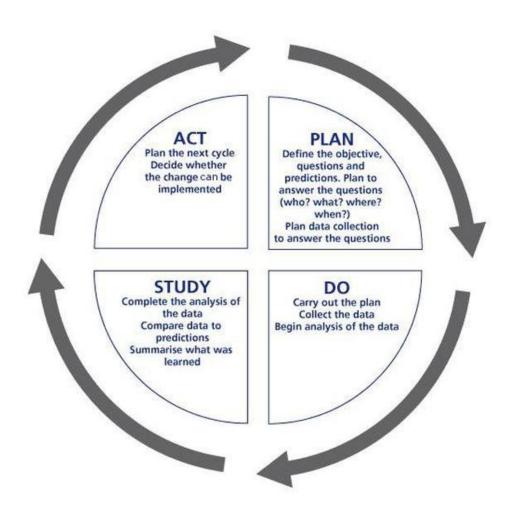
Group Scores		Adjusted	Adjusted
	#	Group	Group Score (% correct)
Sub-Scale	Items	Score	1 10 20 30 40 50 60 70 80 90 100
Safety and Infection Control	4	63.6%	
Home Safety	-1	56.8%	▲
Standard Precautions/Transmission-Based Precautions/Surgical Asepsis	3	65.9%	
Health Promotion and Maintenance	2	71.6%	
Health Promotion/Disease Prevention	1	88.6%	
High Risk Behaviors	1	54.5%	▲
Basic Care and Comfort	6	57.2%	▲
Elimination	1	75.0%	
Mobility/Immobility	3	44.7%	
Non-Pharmacological Comfort Interventions	1	77.3%	4
Nutrition and Oral Hydration	1	56.8%	▲
Pharmacological and Parenteral Theraples	23	70.0%	
Adverse Effects/Contraindications/Side Effects/interactions	7	73.1%	
Blood and Blood Products	4	81.3%	
Central Venous Access Devices	2	70.5%	
Expected Actions/Outcomes		90.9%	
Medication Administration	4	56.8%	
Parenteral/Intravenous Theraples	2	60.2%	▲
Total Parenteral Nutrition (TPN)	3	64.4%	▲
Reduction of Risk Potential	21	60.5%	▲
Diagnostic Tests	1	63.6%	
Laboratory Values	5	62.7%	▲
Potential for Alterations In Body Systems	1 🐂	63.6%	▲
Potential for Complications of Diagnostic Tests/Treatments/Procedures	3	75.0%	
Potential for Complications from Surgical Procedures and Health Alterations	1	68.2%	
System Specific Assessments	4	65.3%	
Therapeutic Procedures	6	45.8% 🛒	▲
Physiological Adaptation	34	58.2%	▲
Alterations In Body Systems	10	51.8%	▲
Fluid and Electrolyte Imbalances	1	81.8%	
Hemodynamics	7	51.9%	▲
lliness Management	7	70.5%	
Medical Emergencies	4	76.1%	
Pathophysiology	1	43.2%	▲
Unexpected Response to Theraples	4	43.8%	▲

Diagnastic Tasts (1 lism)	
Diagnostic Tests (1 Item)	
Tuberculosis: PPD Skin Test	63.6%
Laboratory Values (5 Items)	
Hyperthyroldism: Monitoring Laboratory Results	36.4%
Inflammatory Bowel Disease: Interpreting Laboratory Results	36.4%
Pressure Ulcers, Wounds, and Wound Management: Collecting A Wound Culture Specimen	47.7%
Acid-Base Imbalances: Analyzing Arterial Blood Gas Findings	95.5%
Acute Respiratory Disorders: Expected Findings for a Client who has Pneumonia	97.7%
Potential for Alterations In Body Systems (1 Item)	
Head Injury: Monitoring Neurological Status	63.6%
Potential for Complications of Diagnostic Tests/Treatments/Procedures (3 Items)	
Postoperative Nursing Care: Assessment of Postoperative Dressing	63.6%
Arthroplasty: Postoperative Care for Total Hip Replacement	79.5%
Gastrointestinal Therapeutic Procedures: Caring for a Client Receiving Enteral Feeding	81.8%
Potential for Complications from Surgical Procedures and Health Alterations (1 Item)	
Cardiovascular Diagnostic and Therapeutic Procedures: Postoperative Expected Findings Following Coronary Artery Bypass Graft.	68.2%
System Specific Assessments (4 Items)	
Inflammatory Bowel Disease: Priority Findings to Report for Appendicitis	40.9%
Hemodialysis and Peritoneal Dialysis: Monitoring Patency of an Arteriovenous Graft	47.7%
Spinal Cord Injury: Assessment of a Client who has a Cervical Injury	84.1%
Heart Failure and Pulmonary Edema: Assessment Findings in Client with Right-Sided Heart Failure	88.6%
Therapeutic Procedures (6 items)	
Stroke: Planning to Administer Thrombolytic Therapy	25.0%
Sensory Perception: Performing Ear Irrigation	31.8%
Respiratory Management and Mechanical Ventilation: Choosing Appropriate Oxygen Equipment	43.2%
Diabetes Meilitus Management: Teaching About Foot Care	50.0%
Postoperative Nursing Care: Recognizing Risk Factors for Atelectasis	52.3%
Gastrointestinal Therapeutic Procedures: Discharge Teaching for a Client who has an lieostomy	72.7%



	ATI PROCTORED EXAM AND COURSE IMPROVEMENT FOR	RM					
Facu	ulty Date						
	Course: Proctored Exam Title:						
Pros	gram:						
		FACULTY INITIAL					
	Grade Results						
	W F D CBA Entry Level Results of Number of Students in Each Level						
	Below Level 1 Level 1 Level 2 Level 3						
	Three (3) Areas Identified for Improvement (Low scoring areas on						
	exam, student feedback, peer evaluation)						
	1.						
	2.						
	3.						
	Change Developed for each area identified (For example: active						
	learning strategy added, highlight content during class, show a brief						
	video)						
	1.						
	2.						
	3.						
	Recommendations to faculty teaching other courses. (For example:						
	work with Simulation, Lab and Clinical faculty to address areas of need,						
	let faculty who will next be working with the students know where their						
	areas of need are, let faculty with overlapping content areas know						
	about student weaknesses)						
	1.						
	2.						
	3.						
	Submitted to Curriculum Committee						
	Curriculum Committee Feedback Received						

Deming's PDCA



Mountain Measurement Report

Descriptive Data

Ranking Where Grads Applied Pass Rates

PERCENTAGE OF YOUR GRADUATES PASSING THE NCLEX-RN® EXAMINATION

	APR-SEP	OCT-MAR	APR-SEP	OCT-MAR	APR-SEP
	2011	2012	2012	2013	2013
Total Number of Your Graduates Tested	778	828	768	751	764
Number Passing	700	744	673	632	664
Percent Passing	90%	90%	88%	84%	87%

Mountain Measurement Pass Rates

Note Timeline: April to March!

Mountain Measurement Report

Percentile Ranks of Grads Compared to Grads in a Jurisdiction

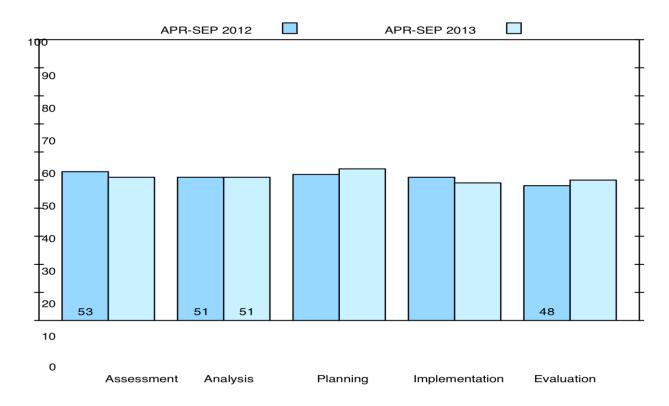
Percentage Ranking Compared to National Population

	APR-SEP 2012	APR-SEP 2013
All Programs in Your Jurisdiction	19 of 56	20 of 63
All Similar Programs Across Every Jurisdiction	243 of 464	237 of 529
All Programs Across Every Jurisdiction	443 of 818	429 of 888

Program Ranking & Percentage of Grads Passing

Mountain Measurement Content Dimension--Six Foundations

Nursing Process Human Function Health Alteration Wellness/Illness Continuum Stage Maturity Stress/Adaptation/Coping



Mountain Measurement: Content Dimension

Nursing Process



Education Program Summary NCSBN Confidential



NCLEX-RN

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	# Total	the part of the part of the life of the second	¹⁰ A. Partin Company and the approximation of the second state of the second stat	and a second	# Dancat	% Repeat
# Delivered	72	100.00%	67	93.06%	5	6.94%
# Passed	64	88.89%	62	92.54%	2	40.00%
# Failed	8	11.11%	5	7.46%	3	60.00%

NCLEX Quarterly Pass Rates

Note Timeline: CALIFORNIA Calendar Year!

Conclusion

In God We Trust, All Others Must Bring Data