

NC AHEC CHW Specialty Training Evaluation Results November 2023 – February 2024

Background

Since 2020, The University of North Carolina at Pembroke (UNCP) has served as the evaluator for the NC CHW Standardized Core Competency Training facilitated by NC community colleges. In 2022, UNCP was asked to also evaluate CHW specialty training created and facilitated by the Mountain Area Health Education Center (MAHEC) and partners. CHW specialty training is offered as a series of online self-paced sources. MAHEC developed pre and post-tests based on course content to assess knowledge outcomes. Specialty training courses were launched in late August 2022. This report includes learner data from November 2023 to February 2024.

Number of Respondents Included in Analysis

Introduction to Health and Wellness Coaching for Community Health Workers
Course #68929 November 2023-February 2024 n=32

Introduction to Motivational Interviewing for Community Health Workers
Course #68932 November 2023-February 2024 n=54

Motivational Interviewing Conversations: Clients with Common Health Conditions
Course #68947 November 2023-February 2024 n=50

Methods

Learners who register for CHW specialty training are prompted to complete online pre and post-tests as part of the course. Deidentified pretest and posttest responses from specialty trainings 68947, 68929, and 68932 were received by the UNCP study team from the MAHEC staff between. Data collected was from pre and post-tests completed between November of 2023 and February of 2024.

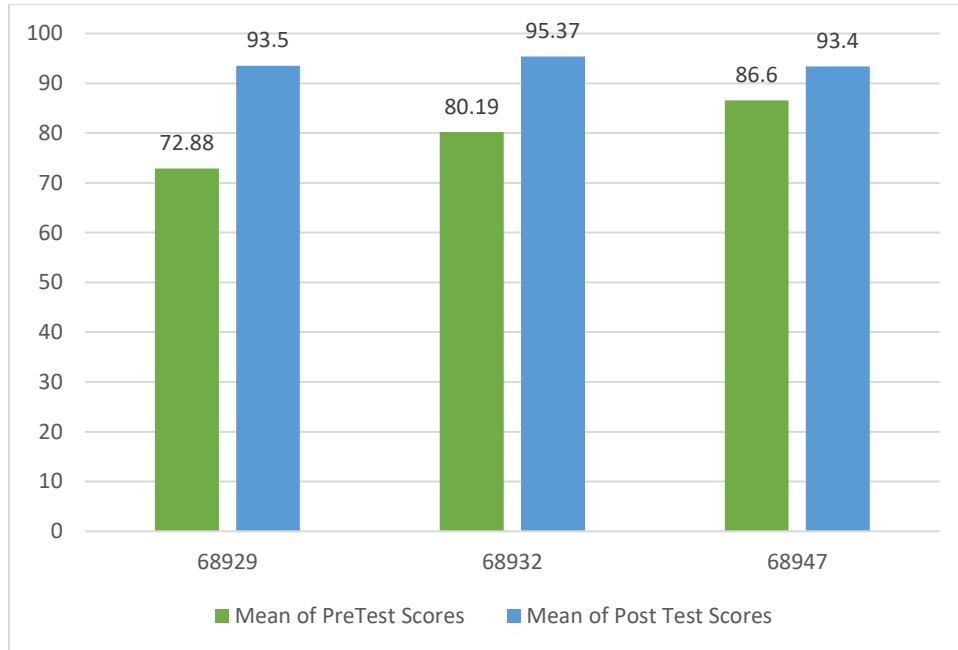
Responses were sorted into pre and post-test pairs by a unique respondent identification number assigned automatically by the MAHEC learning management system. Then, each test was scored. Each correct response received one point. As several questions required multiple correct responses to receive full credit, partially correct responses received 0.5 points. Responses that were incomplete, whether a pretest result without an accompanying posttest or a posttest without an accompanying pretest, were not included in the analysis. Pre- or posttests that were less than 50% complete were removed from the analysis.

Respondents were separated between individuals who self-identified as Community Health Workers (CHWs) and those who did not self-identify as CHWs. Those who did not identify as a CHW were excluded from the data analysis. Each pair of pretests and posttests were compared to notate the percentage of change between the pretest and the posttest scores. Incomplete pairs were excluded. Results were reviewed multiple times to ensure accuracy.

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Results

Means of Pre and Post Test Scores
Specialty Training Modules Nov 2023-Feb 2024



Introduction to Health and Wellness Coaching for Community Health Workers

In Course 68929, CHWs experienced an overall 21% increase in knowledge between November 2023 and February 2024. Overall, course 68929 experienced the greatest knowledge gain amongst the three courses.

Mean scores for pre and posttests in the table below are represented using a score out of a possible 100%.

Pre and post-test t-test paired for course 68929

	PreTest	PostTest
N	32	32
Mean	72.88	93.50
Standard Deviation	21.28	6.49
P value (two-tailed)	<0.0001	
t score	5.2443	
df	62	

The null hypothesis is rejected. The difference in means is highly statistically significant.

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Introduction to Motivational Interviewing for Community Health Workers

In Course 68932, CHWs experienced a 15% increase in knowledge between November 2023 and February 2024. Post-test scores for this course were higher when compared to the other two courses, with an average score of 95% for the post-test.

Mean scores for pre and posttests in the table below are represented using a score out of a possible 100%.

Pre and post-test t-test paired for course 68932

	PreTest	PostTest
N	54	54
Mean	80.19	95.37
Standard Deviation	17.37	6.79
P value (two-tailed)	<0.0001	
t score	6.3633	
df	53	

The null hypothesis is rejected. The difference in means is highly statistically significant.

Motivational Interviewing Conversations: Clients with Common Health Conditions

In Course 68947, CHWs experienced a 7% knowledge between November 2023 and February 2024. 21 CHWS (42%) had a 0% rate of change between the pre- and posttest. Pre-test scores for this course were higher when compared to the other two courses.

Mean scores for pre and posttests in the table below are represented using a score out of a possible 100%.

Pre and post-test t-test paired

	PreTest	PostTest
N	50	50
Mean	86.60	93.40
Standard Deviation	13.03	10.81
P value (two-tailed)	<0.0001	
t score	4.2446	
df	49	

The null hypothesis is rejected. The difference in means is highly statistically significant.