



# ALIGNING eLUMEN ASSESSMENT TO LEARNING OUTCOMES

## Health Information Technology - Spring 2022-Spring 2023

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### PROBLEM

*Identify the specific shortcoming in student achievement you wish to improve. What problem or challenge to student learning did your assessment project aim to address?*

In the 2022 Student Assessment results, the HIT department noticed a discrepancy between the results in eLumen and student performance in the class and on the final exam in HIT 1011 Health Data Management and Information Systems.

The department has long administered post-tests solely to provide student performance data into the eLumen student assessment system. The HIT courses cover a lot of content pertaining to the large and varied aspects and details of the HIT professional field. The questions for these post-tests were randomly selected and did not necessarily reflect the most important content in the course.

### PLAN

*Summarize your plan to improve your students' learning, measure student performance in the problematic area, and assess improvement.*

Because students were tested on accumulated work in the course, the final, and on the professional credentialing exams, the HIT department decided to make sure that the post-test reflected properly the main themes presented in the course, and not any obscure details. This would measure more accurately the student's learning and be a more precise assessment tool.

### ASSESSMENT ACTIVITY

*Provide further details on your assessment activity. How was your plan implemented, how was evidence of student learning gathered, and how was the data analyzed?*

This assessment was completed in HIT 1011 in the Spring 2023 Semester, and is planned to take place every semester the course is offered.

15 out of 15 students (100%) took the post assessment. This test covered important educational content applicable to five (of six) domains of the Certified Coding Associate Exam. These domains include: Healthcare Reimbursement, Health Data, Compliance, Information Technology, and Privacy.

#### Post-Test Question Examples:

1. City Hospital submitted 175 claims where they unbundled laboratory charges. They were overpaid by \$75 on each claim. Calculate the fine for City Hospital.
2. Quality Improvement Organizations perform medical peer review of Medicare and Medicaid claims through a review of \_\_\_\_\_.
3. Referent power is the ability of the team members to identify with leaders who have desirable resources or personal traits.
4. Identify the law that protects employees who report waste of funds.
5. A patient in a rural town in Kentucky was visiting his daughter in Maine. He had a heart attack and was rushed to a hospital in Maine. Identify the best example of hospital A sharing information with Hospital B.

### RESULTS AND DATA

*Discuss the results of your assessment activity, identify key findings, and provide relevant supporting data, including tables, charts, and graphs as relevant.*

Improvement was seen in the Post-Test results after aligning the post-test questions to the major themes of the course. Before this alignment, 17 out of 24 students (71%) scored in the "Exemplary" or "Accomplished" categories. After the alignment, 12 out of 15 students (80%) reached the "Exemplary" or "Accomplished" categories.

### CLOSING THE LOOP AND NEXT STEPS

*Discuss the results of your assessment activity, identify key findings, and provide relevant supporting data, including tables, charts, and graphs as relevant.*

In the future, the projected goal is to see a minimum of 75% of students complete the Post-Test at a minimum of 70% achievement.

In order to further enhance student learning, we are planning on adding hands-on activities enforcing the major learning components using a simulated electronic health record.

