

Lamar Institute of Technology EMPIRICAL AND QUANTITATIVE SKILLS RUBRIC

Definition

To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Core Objective Aspects	Exceeds Expectations 4pts	Meets Expectations 3pts	Below Expectations 2pts	Unacceptable 1pt
Identify and manipulate observable facts or numerical data	Identifies and manipulates observable facts or numerical data in a comprehensive manner; defines parameters and nuances in a fully focused and testable manner	Identifies and manipulates observable facts or numerical data in a competent manner; defines parameters and nuances in a competently focused and testable manner	Identification and manipulation of observable facts or numerical data is attempted but mostly unsuccessful; defines parameters and nuances in a poorly focused or untestable manner	Identification and manipulation of observable facts or numerical data is attempted but unsuccessful; defines parameters and nuances in an unfocused and untestable manner
Apply and analyze observable facts or numerical data	Able to process and analyze observable facts or numerical data as a basis for thoughtful judgment; organizes and synthesizes evidence to reveal insightful patterns, differences, or similarities	Able to process and analyze observable facts or numerical data as a basis for competent judgment; organizes and synthesizes evidence to reveal patterns, differences, or similarities	Unable to effectively process and analyze observable facts or numerical data to make further judgment; organizes evidence but the organization is not effective in revealing important patterns, differences, or similarities	Makes no attempt to process and analyze observable facts or numerical data to make further judgment; lists evidence but is not organized
Draw informed conclusions	Draws accurate and carefully qualified conclusions that are insightful and well supported by the facts or data	Draws reasonable and appropriate conclusions that are logical and mostly supported by the facts or data	Draws mostly incorrect conclusions that are poorly supported and contain logical flaws	Draws incorrect conclusions that are largely unsupported by the facts or data