
Assessing Core Competencies: Results of Critical Thinking Skills Testing

Graduating Seniors
2020 Fañomnåkan (Spring)

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Assessing Core Competencies: Results of Critical Thinking Skills Testing

2020 Fañomnåkan

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Critical Thinking Skills Test Results Highlights

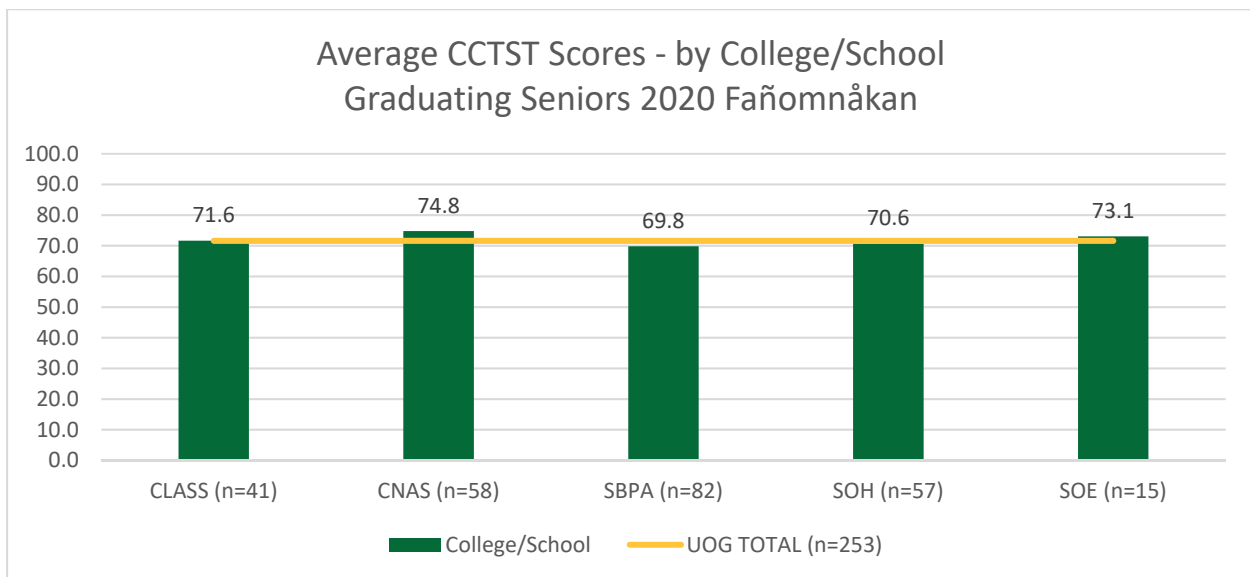
2020 Fañomnåkan

The California Critical Thinking Skills Test (CCTST) by Insight Assessment utilized by our University runs on a 100-point scale with 50 being the lowest possible score. This Fañomnåkan, the overall average for our 253 graduating seniors is **71.6**. This is a slight *increase* from the previous semester’s score of 70.7. Our seniors remain in the “Moderate” category (3 on a 5-point scale). Insight Assessment describes a student in the moderate category as someone with “the potential for skills-related challenges when engaged in reflective problem solving and reflective decision-making associated with learning or employee development.”

Along with the overall score, our seniors’ national average percentile scored increased to **38** points. A note of interpretation for the percentile scoring: A score that falls in the 40th percentile indicates that out of 100 test takers, roughly 60 would earn a higher score.

Seniors continue to score the highest in the *Interpretation* and *Induction Skills* Categories. In contrast, students have scored the lowest in the *Evaluation* and *Deduction Skills* Category. Descriptions of each skill and attribute tested are shown on page 4.

This report includes more detailed results of scores disaggregated by Major, and by College/School. To assure the privacy of our graduating seniors, we did not include data for majors with less than three students. The table below shows the average scores of students in each college/school with the UOG average trendline at **71.6**.





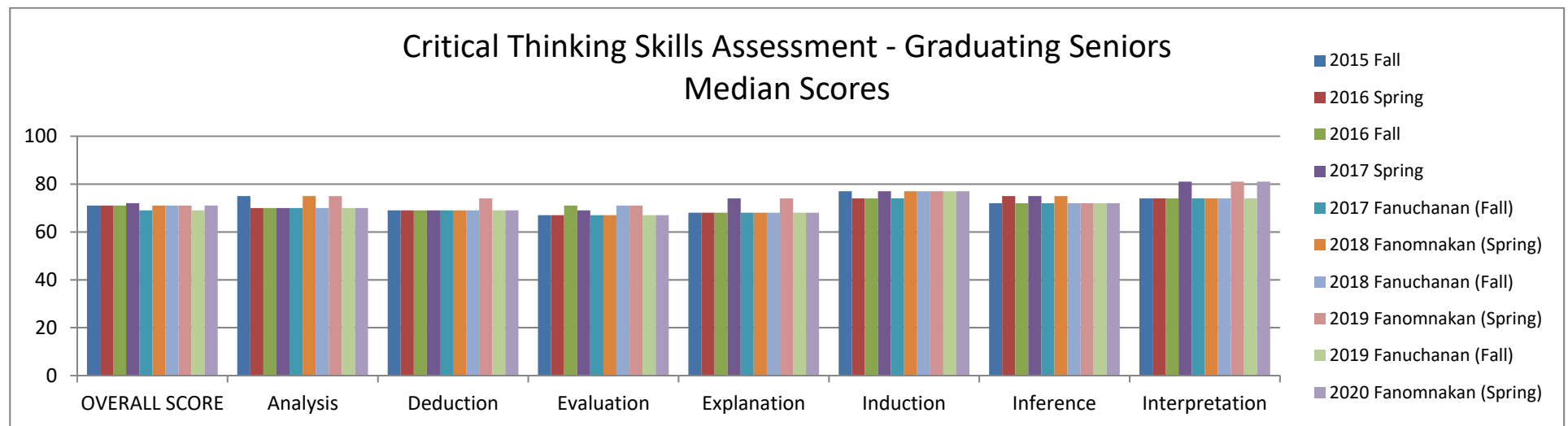
Critical Thinking Skills Assessment - Graduating Seniors Median Scores

MEDIAN Scores

Skill/Attribute	2015 Fall	2016 Spring	2016 Fall	2017 Spring	2017 Fanuchanan (Fall)	2018 Fanomnakan (Spring)	2018 Fanuchanan (Fall)	2019 Fanomnakan (Spring)	2019 Fanuchanan (Fall)	2020 Fanomnakan (Spring)	Ten-Semester Average
N	153	275	172	242	193	241	170	291	157	253	214
OVERALL SCORE	71	71	71	72	69	71	71	71	69	71	71
Analysis	75	70	70	70	70	75	70	75	70	70	72
Deduction	69	69	69	69	69	69	69	74	69	69	70
Evaluation	67	67	71	69	67	67	71	71	67	67	68
Explanation	68	68	68	74	68	68	68	74	68	68	69
Induction	77	74	74	77	74	77	77	77	77	77	76
Inference	72	75	72	75	72	75	72	72	72	72	73
Interpretation	74	74	74	81	74	74	74	81	74	81	76
Aggregate sample of CCTST Four Year College Students, average percentile score:	30	31	30	34	29	33	31	36	34	38	33

National Percentile Comparison Group for OVERALL SCORE: Regional 4 Yr Open-Enrollment Universities Percentile Score is time sensitive. Percentile Ranking as of November 2018.

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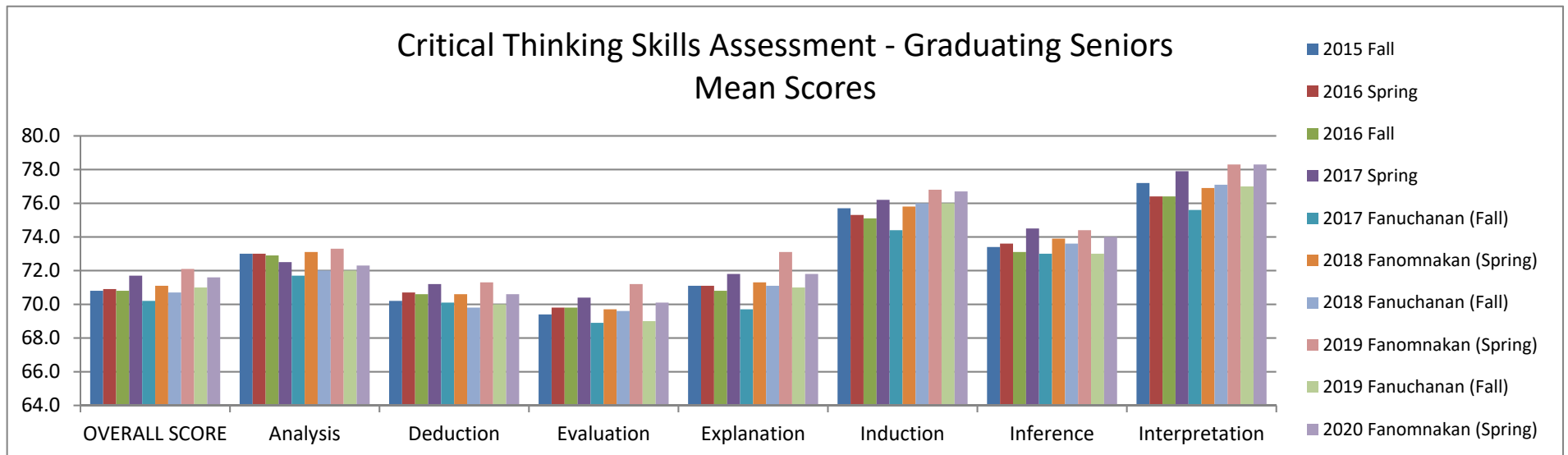
Critical Thinking Skills Assessment - Graduating Seniors Mean Scores

MEAN Scores

Skill/Attribute	2015 Fall	2016 Spring	2016 Fall	2017 Spring	2017 Fanuchanan (Fall)	2018 Fanomnakan (Spring)	2018 Fanuchanan (Fall)	2019 Fanomnakan (Spring)	2019 Fanuchanan (Fall)	2020 Fanomnakan (Spring)	Ten-Semester Average
N	153	275	172	242	193	241	170	291	157	253	214.70
OVERALL SCORE	70.8	70.9	70.8	71.7	70.2	71.1	70.7	72.1	71	71.6	71.09
Analysis	73.0	73.0	72.9	72.5	71.7	73.1	72.0	73.3	72	72.3	72.58
Deduction	70.2	70.7	70.6	71.2	70.1	70.6	69.8	71.3	70	70.6	70.51
Evaluation	69.4	69.8	69.8	70.4	68.9	69.7	69.6	71.2	69	70.1	69.79
Explanation	71.1	71.1	70.8	71.8	69.7	71.3	71.1	73.1	71	71.8	71.28
Induction	75.7	75.3	75.1	76.2	74.4	75.8	76.0	76.8	76	76.7	75.80
Inference	73.4	73.6	73.1	74.5	73.0	73.9	73.6	74.4	73	74.0	73.65
Interpretation	77.2	76.4	76.4	77.9	75.6	76.9	77.1	78.3	77	78.3	77.11
Aggregate sample of CCTST Four Year College Students, average percentile score:	30	31	30	34	29	33	31	36	34	38	33

National Percentile Comparison Group for OVERALL SCORE: Regional 4 Yr Open-Enrollment Universities Percentile Score is time sensitive. Percentile Ranking as of November 2018.

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OVERALL

The Reasoning Skills Overall score describes overall strength in using reasoning to form reflective judgments about what to believe or what to do. High Overall scores are attained by test takers who excel in the sustained, focused and integrated application of core thinking skills measured on this test, including analysis, interpretation, inference, evaluation, explanation, induction and deduction. The Overall score predicts the capacity for success in educational or workplace settings which demand reasoned decision making and thoughtful problem solving.

INDUCTION

Decision making in contexts of uncertainty relies on inductive reasoning. We use inductive reasoning skills when we draw inferences about what we think is probably true based on analogies, case studies, prior experience, statistical analyses, simulations, hypotheticals, and patterns recognized in familiar objects, events, experiences and behaviors. As long as there is the possibility, however remote, that a highly probable conclusion might be mistaken even though the evidence at hand is unchanged, the reasoning is inductive. Although it does not yield certainty, inductive reasoning can provide a confident basis for solid belief in our conclusions and a reasonable basis for action.

EXPLANATION

Explanatory reasoning skills, when exercised prior to making a final decision about what to believe or what to do, enable us to describe the evidence, reasons, methods, assumptions, standards or rationale for those decisions, opinions, beliefs and conclusions. Strong explanatory skills enable people to discover, to test and to articulate the reasons for beliefs, events, actions and decisions.

INTERPRETATION

Interpretative skills are used to determine the precise meaning and significance of a message or signal, whether it is a gesture, sign, set of data, written or spoken words, diagram, icon, chart or graph. Correct interpretation depends on understanding the message in its context and in terms of who sent it, and for what purpose. Interpretation includes clarifying what something or someone means, grouping or categorizing information, and determining the significance of a message.

INFERENCE

Inference skills enable us to draw conclusions from reasons and evidence. We use inference when we offer thoughtful suggestions and hypotheses. Inference skills indicate the necessary or the very probable consequences of a given set of facts and conditions. Conclusions, hypotheses, recommendations or decisions that are based on faulty analyses, misinformation, bad data or biased evaluations can turn out to be mistaken, even if they have been reached using excellent inference skills.

EVALUATION

Evaluative reasoning skills enable us to assess the credibility of sources of information and the claims they make. And, we use these skills to determine the strength or weakness of arguments. Applying evaluation skills we can judge the quality of analyses, interpretations, explanations, inferences, options, opinions, beliefs, ideas, proposals, and decisions. Strong explanation skills can support high quality evaluation by providing the evidence, reasons, methods, criteria, or assumptions behind the claims made and the conclusions reached.

ANALYSIS

Analytical reasoning skills enable people to identify assumptions, reasons and claims, and to examine how they interact in the formation of arguments. We use analysis to gather information from charts, graphs, diagrams, spoken language and documents. People with strong analytical skills attend to patterns and to details. They identify the elements of a situation and determine how those parts interact. Strong interpretation skills can support high quality analysis by providing insights into the significance of what a person is saying or what something means.

DEDUCTION

Decision making in precisely defined contexts where rules, operating conditions, core beliefs, values, policies, principles, procedures and terminology completely determine the outcome depends on strong deductive reasoning skills. Deductive reasoning moves with exacting precision from the assumed truth of a set of beliefs to a conclusion which cannot be false if those beliefs are true. Deductive validity is rigorously logical and clear-cut. Deductive validity leaves no room for uncertainty, unless one alters the meanings of words or the grammar of the language.

CCTST OVERALL Scores can be interpreted as to their relative strength using qualitative descriptors. This is useful for studying both individuals and groups.

Superior: This result indicates critical thinking skill that is superior to the vast majority of test takers. Skills at the superior level are consistent with the potential for more advanced learning and leadership.
Strong: The result is consistent with the potential for academic success and career development.
Moderate: This result indicates the potential for skills-related challenges when engaged in reflective problem solving and reflective decision-making associated with learning or employee development.
Weak: This result is predictive of difficulties with educational and employment related demands for reflective problem solving and reflective decision making.
Not Manifested: This result is consistent with possible insufficient test taker effort, cognitive fatigue, or possible reading or language comprehension issues.

Table 1. Qualitative descriptors of the strength of CCTST OVERALL Scores

Table 2 displays the score ranges that correspond to the qualitative descriptions in Table 1. A score of 86 and higher for CCTST OVERALL indicates a superior score. This score is currently earned by approximately 15% of the undergraduate national sample (2018). Scores of 69 and lower display weak overall skill or no manifestation of critical thinking skills, and have been associated with poor performance educationally, in the workplace, and on professional licensure examination.


	Qualitative Description of CCTST OVERALL Score				
	Not Manifested	Weak	Moderate	Strong	Superior
CCTST OVERALL Score 100-point versions	50-62	63-69	70-78	79-85	86 or higher

Table 2. Qualitative Description of the OVERALL Score

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Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

California Critical Thinking Skills Test (CCTST). The CCTST measures the reasoning skills human beings use in the process of reflectively deciding what to believe or what to do.

Skill/Attribute Name	N	Mean	Median	Standard Deviation	SE Mean
OVERALL	253	71.6	71	6.2	0.4
Analysis	253	72.3	70	7.6	0.5
Interpretation	253	78.3	81	8.2	0.5
Inference	253	74.0	72	6.6	0.4
Evaluation	253	70.1	67	7.8	0.5
Explanation	253	71.8	68	9.1	0.6
Induction	253	76.7	77	6.7	0.4
Deduction	253	70.6	69	6.6	0.4

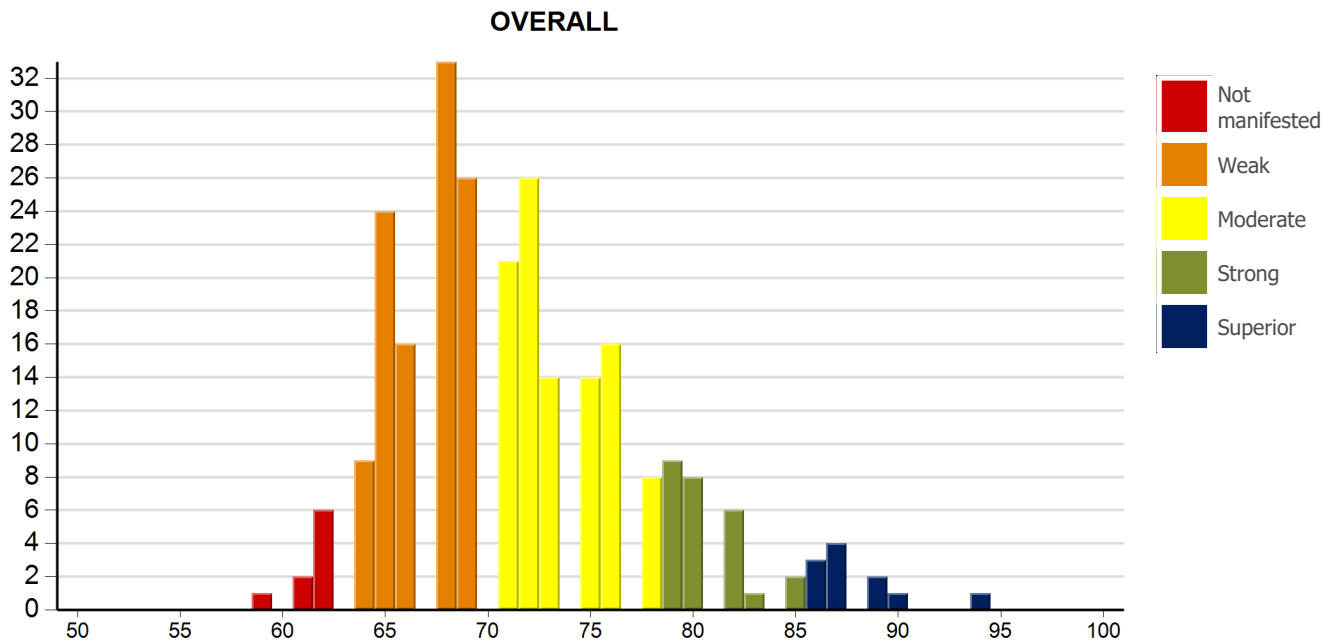
Skill/Attribute Name	Minimum	Maximum	Quartile 1	Quartile 3
OVERALL	59	94	68	75
Analysis	55	95	65	75
Interpretation	55	100	74	81
Inference	55	94	69	78
Evaluation	55	100	63	75
Explanation	55	100	68	74
Induction	64	97	71	82
Deduction	58	95	66	74

Based on the distribution of the overall score percentiles for the test takers in this group, as compared to an aggregate sample of CCTST Four Year College Students, the average percentile score of this group of test takers is 38.

Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

Descriptive Information: OVERALL

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
253	71.6	71.0	6.2	0.4	59	94	68.0	75.0



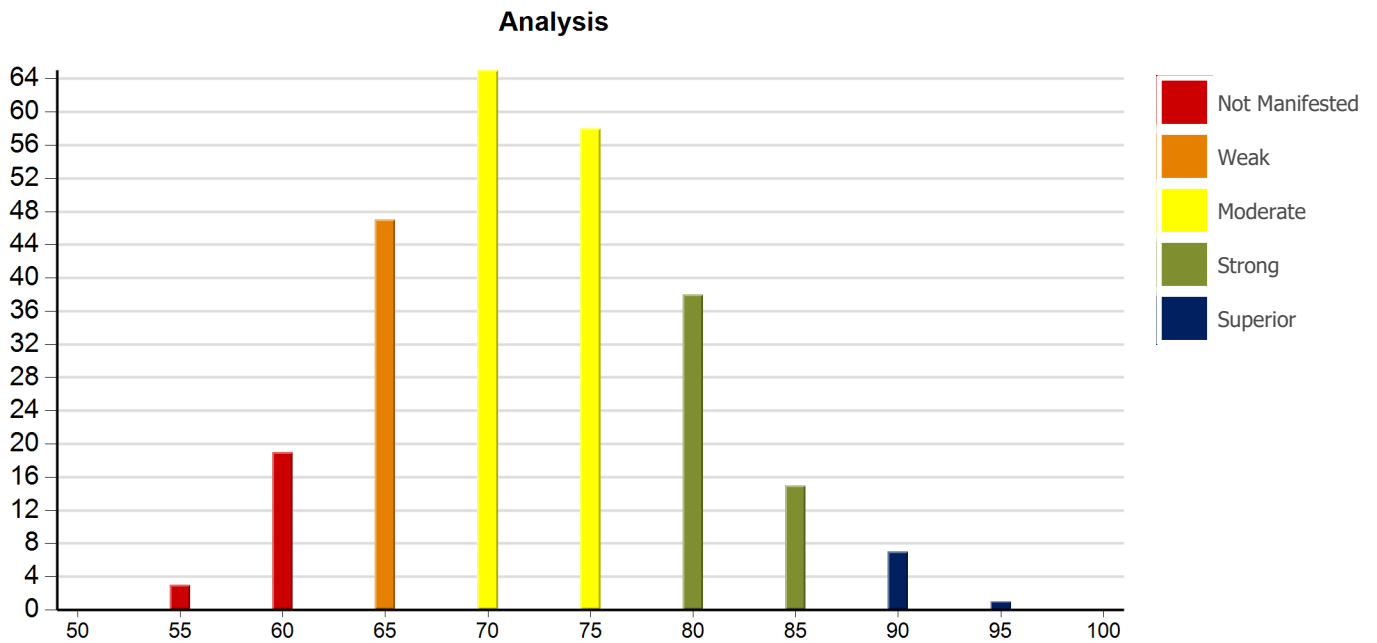
The Overall Score describes overall strength in using reasoning to form reflective judgments about what to believe or what to do. To score well overall, the test taker must excel in the sustained, focused and integrated application of core reasoning skills including analysis, interpretation, inference, evaluation, explanation, induction and deduction. The Overall Score predicts the capacity for success in educational or workplace settings which demand reasoned decision making and thoughtful problem solving.

The descriptive information reported below indicates strengths and also areas for continued improvement. These results are useful for understanding group characteristics, for comparing and contrasting similar groups on specific attributes or skills, and for guiding the development of more targeted educational or training programs.

Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

Descriptive Information: Analysis

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
253	72.3	70.0	7.6	0.5	55	95	65.0	75.0

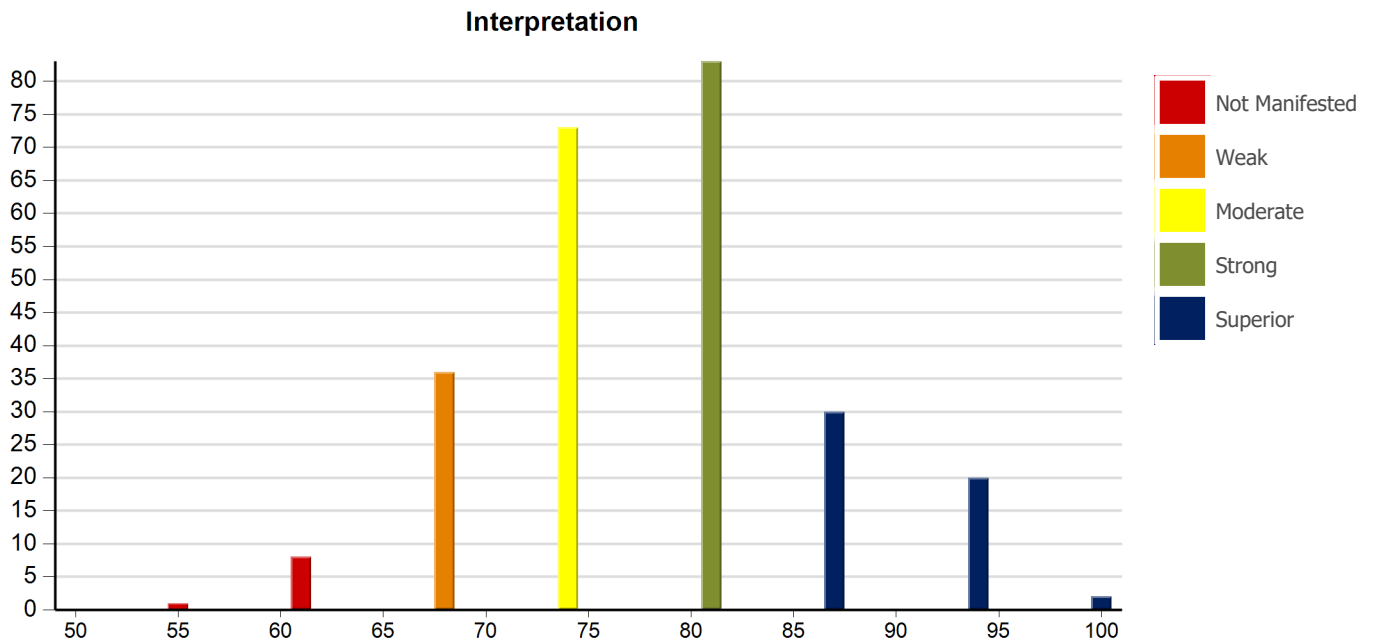


Analytical skills are used to identify assumptions, reasons, themes, and the evidence used in making arguments or offering explanations. Analytical skills enable us to consider all the key elements in any given situation, and to determine how those elements relate to one another. People with strong analytical skills notice important patterns and details. People use analysis to gather the most relevant information from spoken language, documents, signs, charts, graphs, and diagrams.

Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

Descriptive Information: Interpretation

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
253	78.3	81.0	8.2	0.5	55	100	74.0	81.0

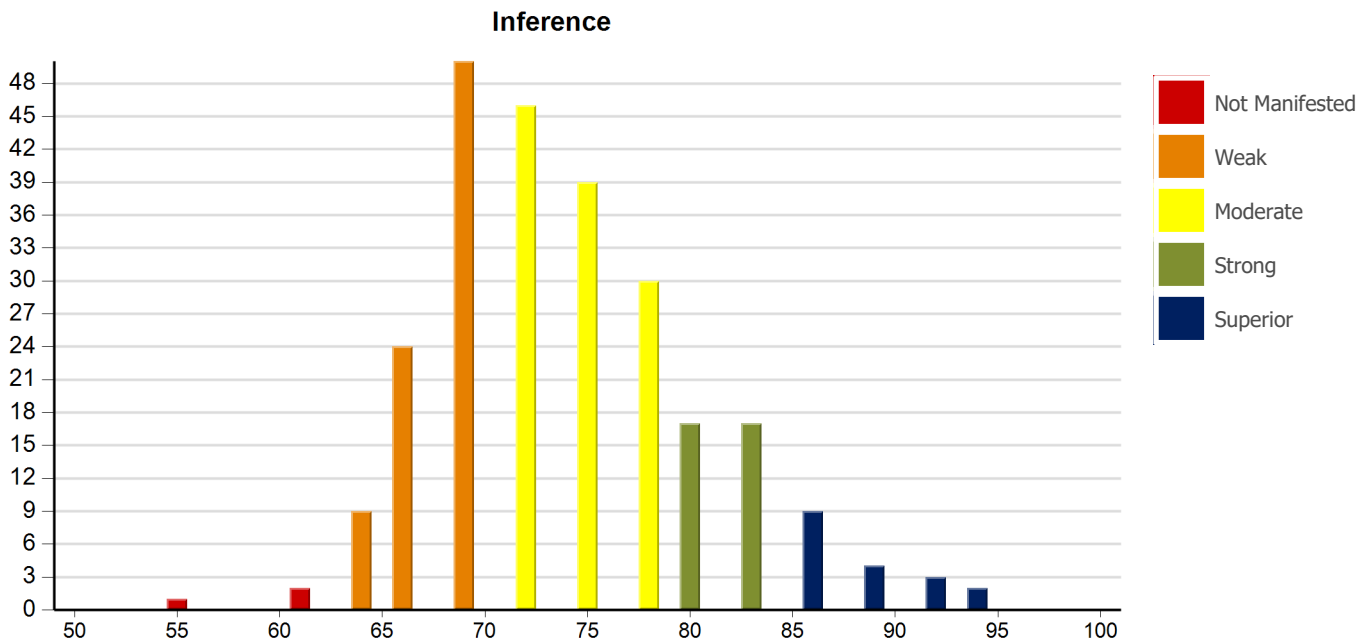


Interpretation is the process of discovering, determining, or assigning meaning. Interpretation skills can be applied to anything, e.g. written messages, charts, diagrams, maps, graphs, memes, and verbal and non-verbal exchanges. People apply their interpretive skills to behaviors, events, and social interactions when deciding what they think something means in a given context.

Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

Descriptive Information: Inference

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
253	74.0	72.0	6.6	0.4	55	94	69.0	78.0

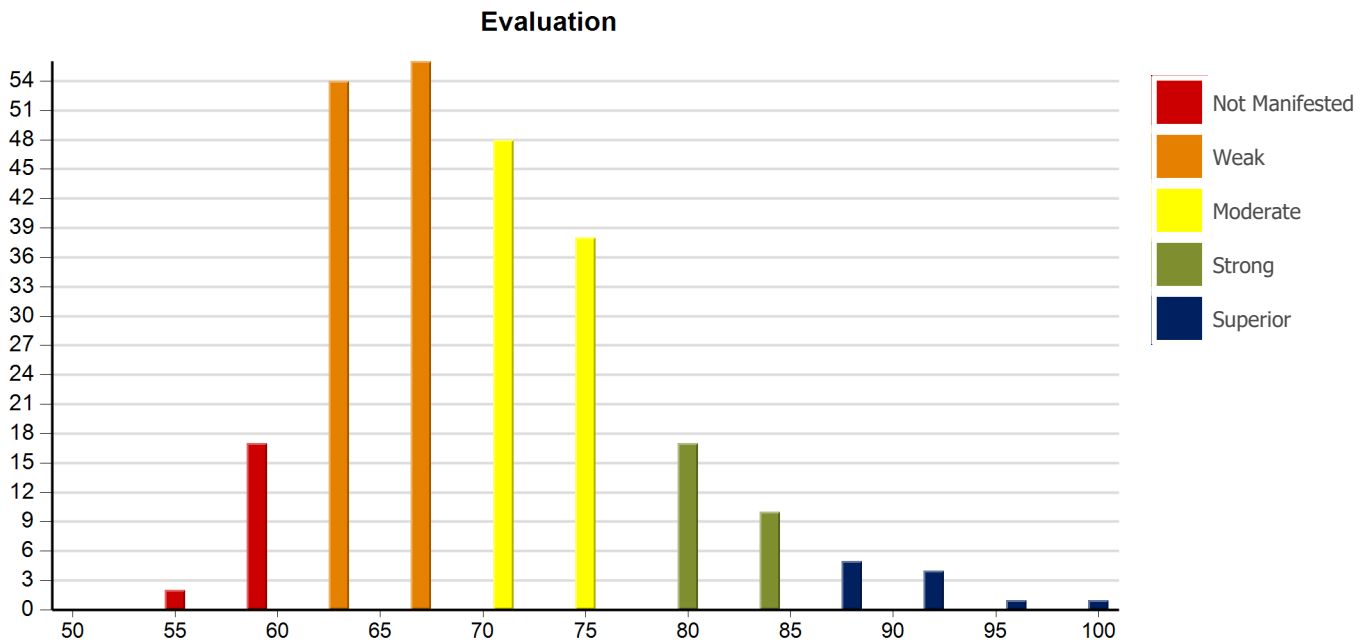


Inference skills enable us to draw conclusions from reasons, evidence, observations, experiences, or our values and beliefs. Using Inference, we can predict the most likely consequences of the options we may be considering. Inference enables us to see the logical consequences of the assumptions we may be making. Sound inferences rely on accurate information. People with strong inference skills draw logical or highly reliable conclusions using all forms of analogical, probabilistic, empirical, and mathematical reasoning.

Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

Descriptive Information: Evaluation

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
253	70.1	67.0	7.8	0.5	55	100	63.0	75.0

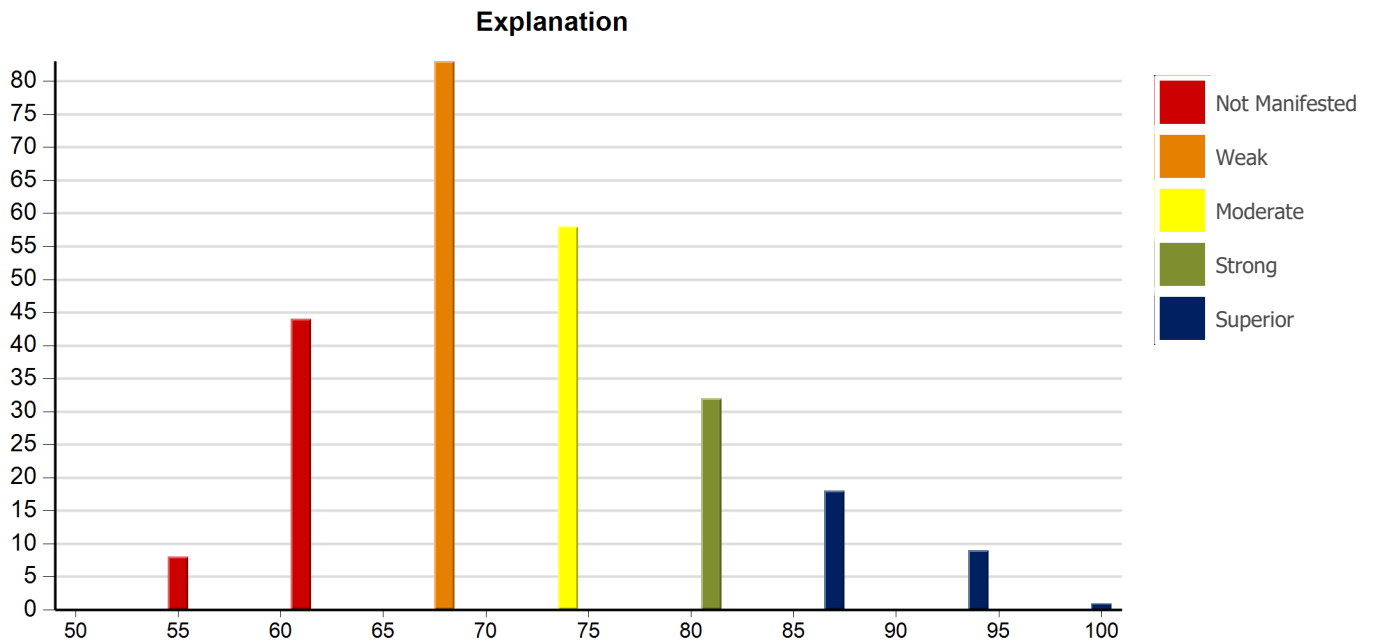


Evaluative skills are used to assess the credibility of the claims people make or post, and to assess the quality of the reasoning people display when they make arguments or give explanations. We can also apply our evaluation skills to assess the quality of many other elements that are important for good thinking, such as analyses, interpretations, explanations, inferences, options, opinions, beliefs, hypotheses, proposals, and decisions. People with strong evaluation skills can judge the quality of arguments and the credibility of speakers and writers.

Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

Descriptive Information: Explanation

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
253	71.8	68.0	9.1	0.6	55	100	68.0	74.0

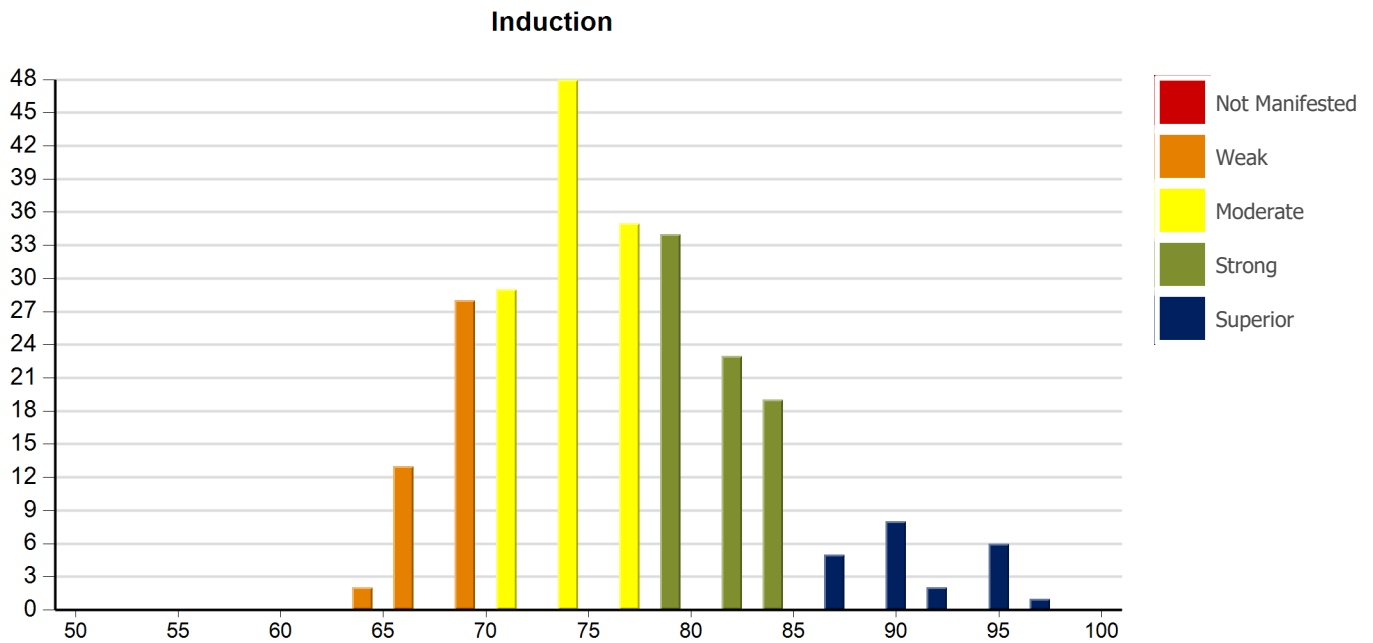


Explanation is the process of justifying what we have decided to do or what we have decided to believe. People with strong explanation skills provide the evidence, methods, and considerations they actually relied on when making their judgment. Explanations can include our assumptions, reasons, values, and beliefs. Strong explanations enable others to understand and to evaluate our decisions.

Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

Descriptive Information: Induction

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
253	76.7	77.0	6.7	0.4	64	97	71.0	82.0

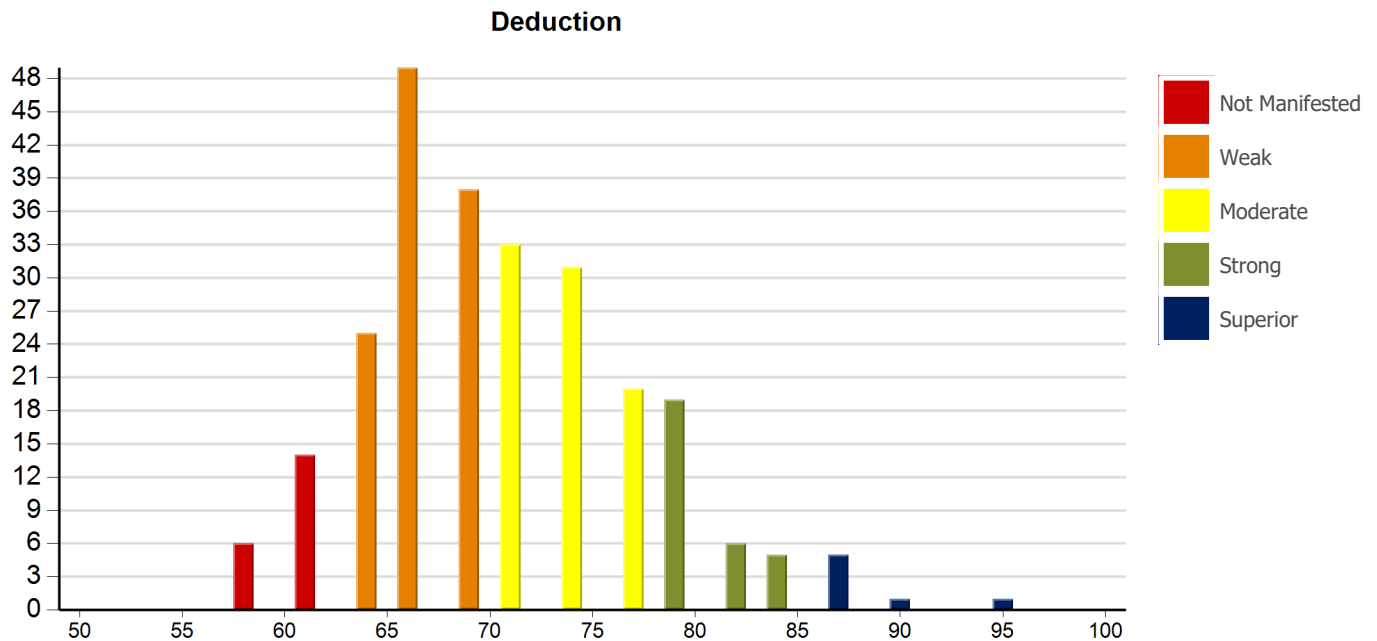


Inductive reasoning relies on estimating likely outcomes. Decision making in contexts of uncertainty relies on inductive reasoning. Inductive decisions can be based on analogies, case studies, prior experience, statistical analyses, simulations, hypotheticals, trusted testimony, and the patterns we may recognize in a set of events, experiences, symptoms or behaviors. Inductive reasoning always leaves open the possibility, however remote, that a highly probable conclusion might be mistaken. Although it does not yield certainty, inductive reasoning can provide a solid basis for confidence in our conclusions and a reasonable basis for action.

Customer: Univ Guam - Assessment
 Test/Survey: California Critical Thinking Skills Test - 10.1.10
 Report Date: [REDACTED]
 Assignment: [REDACTED]

Descriptive Information: Deduction

N	Mean	Median	Standard Deviation	SE Mean	Minimum	Maximum	Quartile 1	Quartile 3
253	70.6	69.0	6.6	0.4	58	95	66.0	74.0

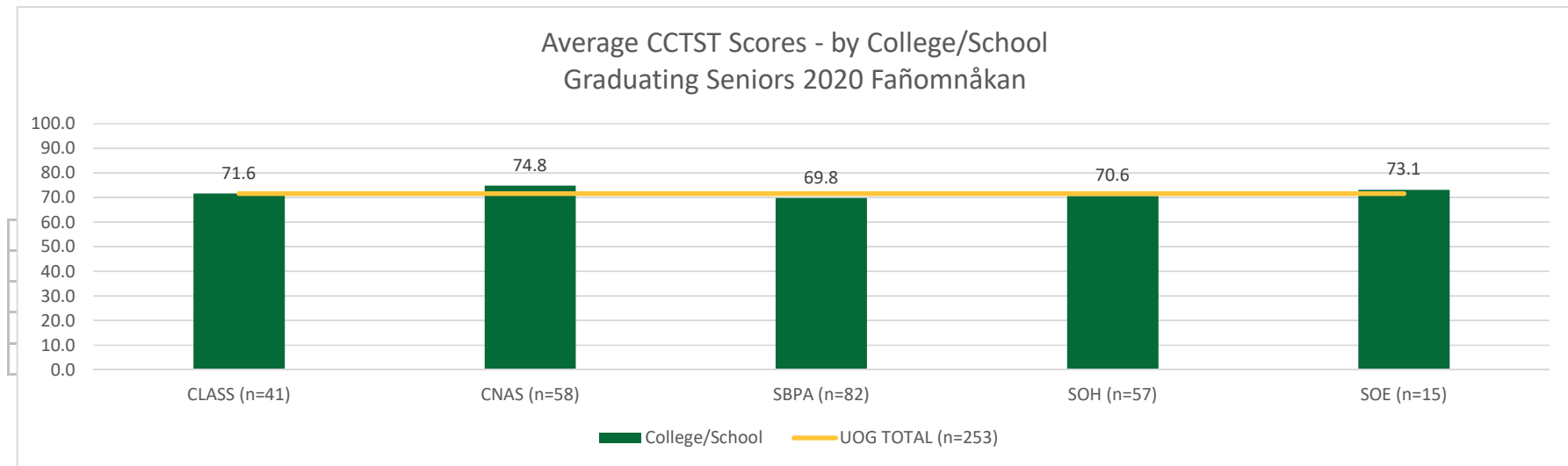


Deductive reasoning is rigorously logical and clear cut. Deductive skills are used whenever we determine the precise logical consequences of a given set of rules, conditions, beliefs, values, policies, principles, procedures, or terminology. Deductive reasoning is deciding what to believe or what to do in precisely defined contexts that rely on strict rules and logic. Deductive validity results in a conclusion which absolutely cannot be false, if the assumptions or premises from which we started all are true. Deductive validity leaves no room for uncertainty. That is, unless we decide to change the very meanings of our words or the grammar of our language.



2020 Fañomnåkan California Critical Thinking Skills Test Average Scores by College/School

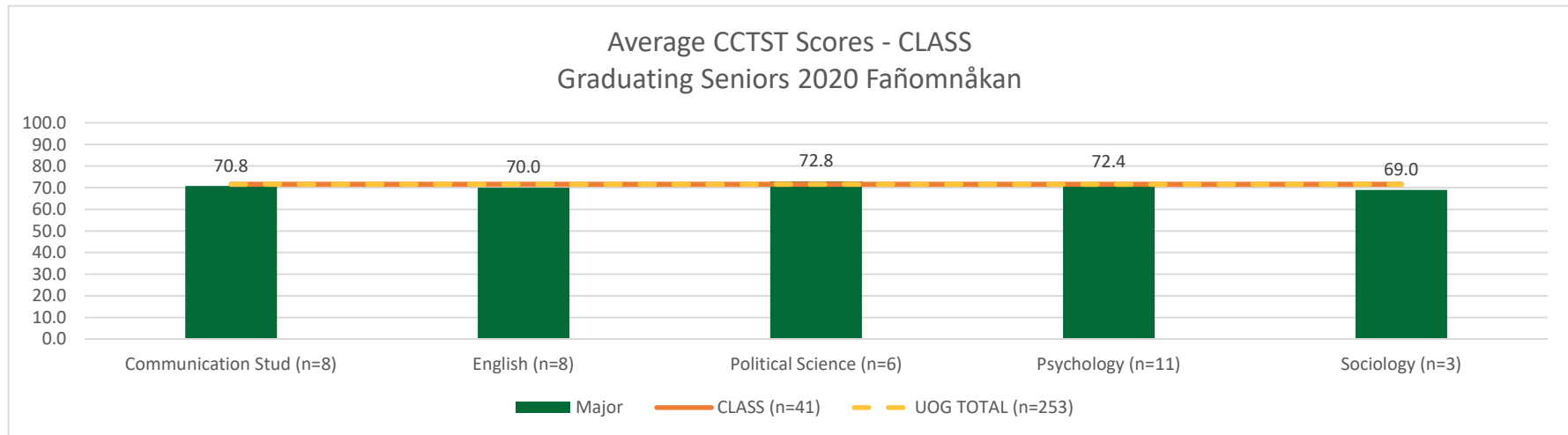
Major	OVERALL Average	OVERALL St Dev	Average							
			Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
CLASS (n=41)	71.6	6.9	38.7	72.6	77.3	73.5	70.8	72.9	76.6	70.8
CNAS (n=58)	74.8	6.7	50.7	75.7	81.0	77.4	72.7	74.4	79.3	74.0
SBPA (n=82)	69.8	5.0	30.2	70.4	76.6	72.3	68.8	70.0	75.1	68.8
SOH (n=57)	70.6	7.6	33.4	71.0	78.9	72.9	68.4	70.6	76.1	69.3
SOE (n=15)	73.1	5.0	44.1	74.7	77.7	76.2	71.5	73.3	77.7	72.3
UOG TOTAL (n=253)	71.6	6.2	37.8	72.3	78.3	74.0	70.1	71.8	76.7	70.6





2020 Fañomnåkan California Critical Thinking Skills Test Average Scores - CLASS

Major	OVERALL Average	OVERALL St Dev	Average							
			Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
Communication Stud (n=8)	70.8	7.7	34.9	71.9	76.0	74.0	69.1	71.0	75.9	69.9
English (n=8)	70.0	7.4	31.5	71.3	75.8	72.5	68.1	71.0	75.6	68.4
Political Science (n=6)	72.8	4.9	43.8	75.8	77.5	73.5	72.5	72.2	77.2	72.3
Psychology (n=11)	72.4	7.6	41.5	73.2	79.1	73.0	72.7	73.6	76.6	72.1
Sociology (n=3)	69.0	7.8	27.7	70.0	74.3	73.0	64.3	70.0	73.3	69.0
CLASS (n=41)	71.6	6.9	38.7	72.6	77.3	73.5	70.8	72.9	76.6	70.8
UOG TOTAL (n=253)	71.6	6.2	37.8	72.3	78.3	74.0	70.1	71.8	76.7	70.6

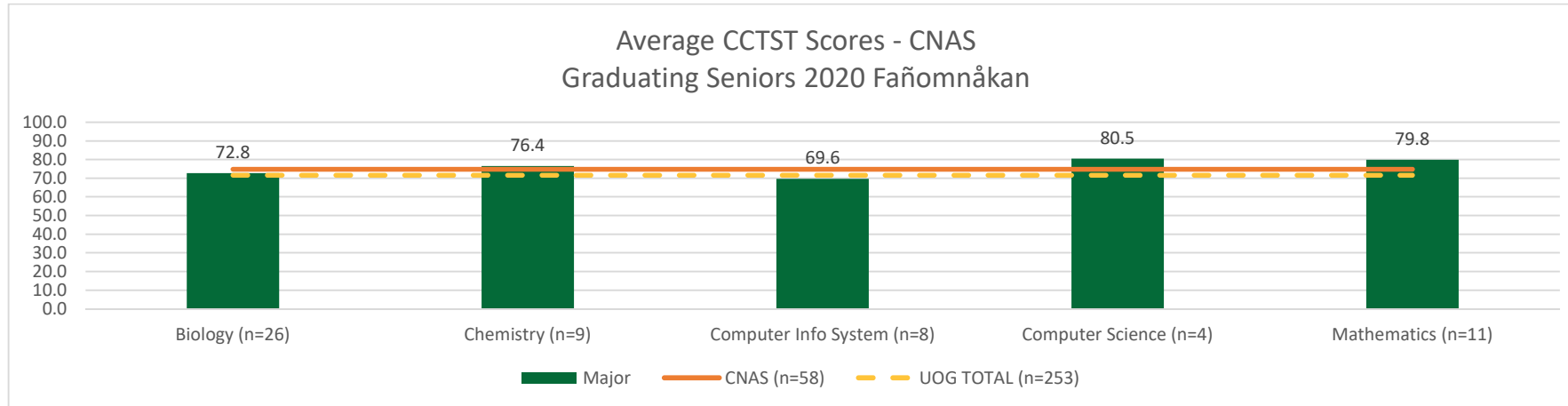


The following majors did not have enough students to report: Anthropology, Fine Arts/Theater, History, Asian Studies Program, and Philosophy



2020 Fañomnåkan California Critical Thinking Skills Test Average Scores - CNAS

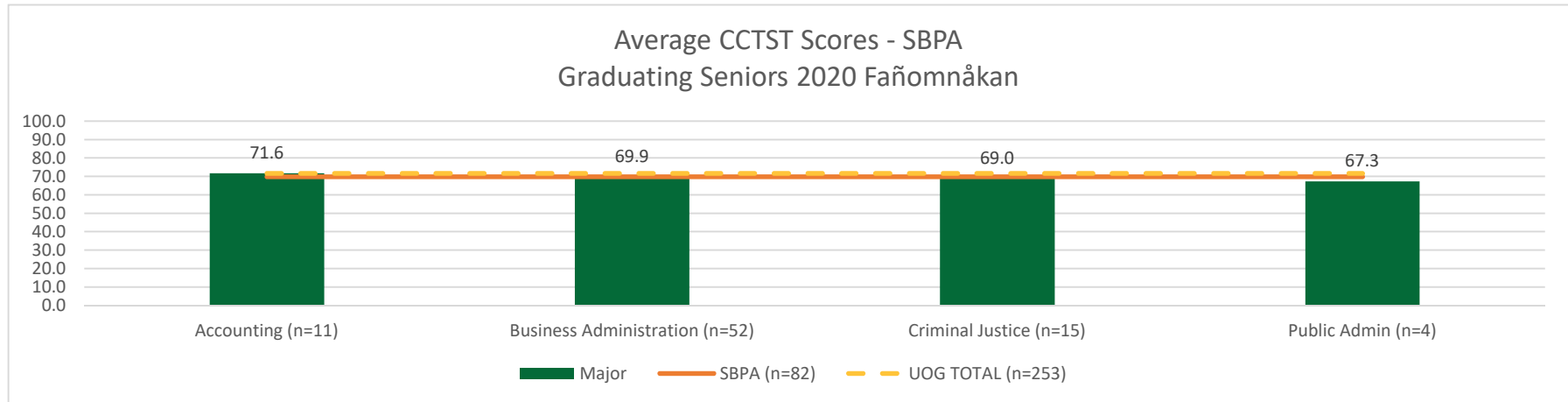
Major	OVERALL Average	OVERALL St Dev	Average							
			Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
Biology (n=26)	72.8	6.1	42.2	73.1	78.7	75.3	70.7	72.7	77.8	71.7
Chemistry (n=9)	76.4	5.6	59.3	77.8	81.6	76.7	77.3	77.9	80.1	76.3
Computer Info System (n=8)	69.6	3.7	28.8	70.6	79.1	74.0	65.0	66.1	74.3	69.1
Computer Science (n=4)	80.5	5.8	74.0	82.5	84.3	81.3	81.5	85.5	85.0	78.5
Mathematics (n=11)	79.8	6.6	71.4	81.4	86.2	83.8	75.9	77.6	83.6	79.2
CNAS (n=58)	74.8	6.7	50.7	75.7	81.0	77.4	72.7	74.4	79.3	74.0
UOG TOTAL (n=253)	71.6	6.2	37.8	72.3	78.3	74.0	70.1	71.8	76.7	70.6





2020 Fañomnåkan California Critical Thinking Skills Test Average Scores - SBPA

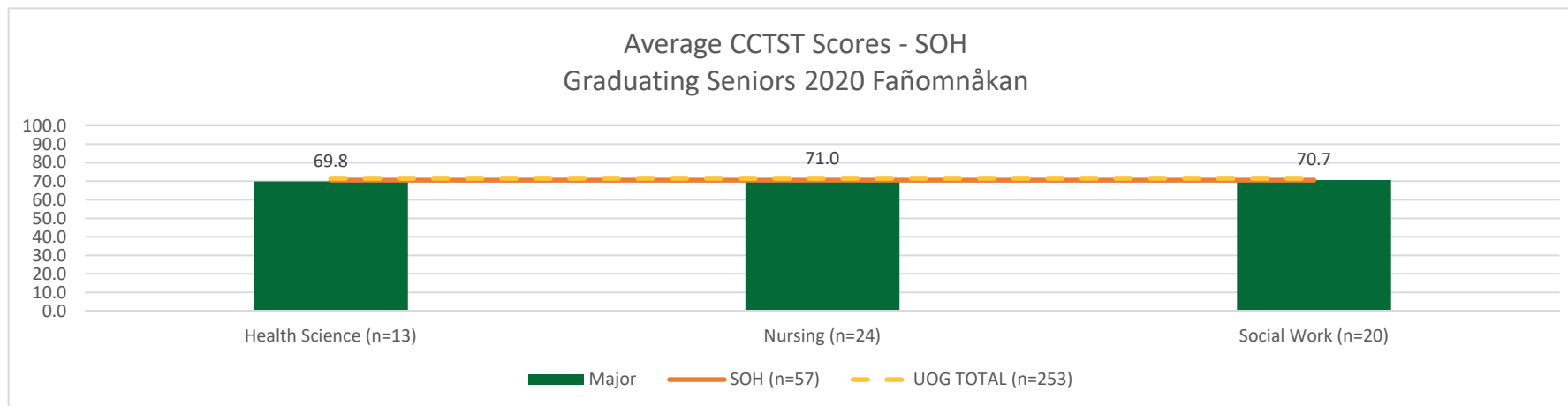
Major	OVERALL Average	OVERALL St Dev	Average							
			Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
Accounting (n=11)	71.6	6.9	39.4	71.4	77.3	73.1	71.9	71.2	75.4	71.7
Business Administration (n=52)	69.9	5.0	30.2	70.8	77.4	72.7	68.2	69.5	75.3	68.7
Criminal Justice (n=15)	69.0	3.9	26.5	69.0	75.1	71.5	68.1	70.0	74.9	67.3
Public Administration (n=4)	67.3	2.1	18.8	67.5	69.3	67.5	70.0	72.8	72.0	67.5
SBPA (n=82)	69.8	5.0	30.2	70.4	76.6	72.3	68.8	70.0	75.1	68.8
UOG TOTAL (n=253)	71.6	6.2	37.8	72.3	78.3	74.0	70.1	71.8	76.7	70.6





2020 Fañomnåkan California Critical Thinking Skills Test Average Scores - SOH

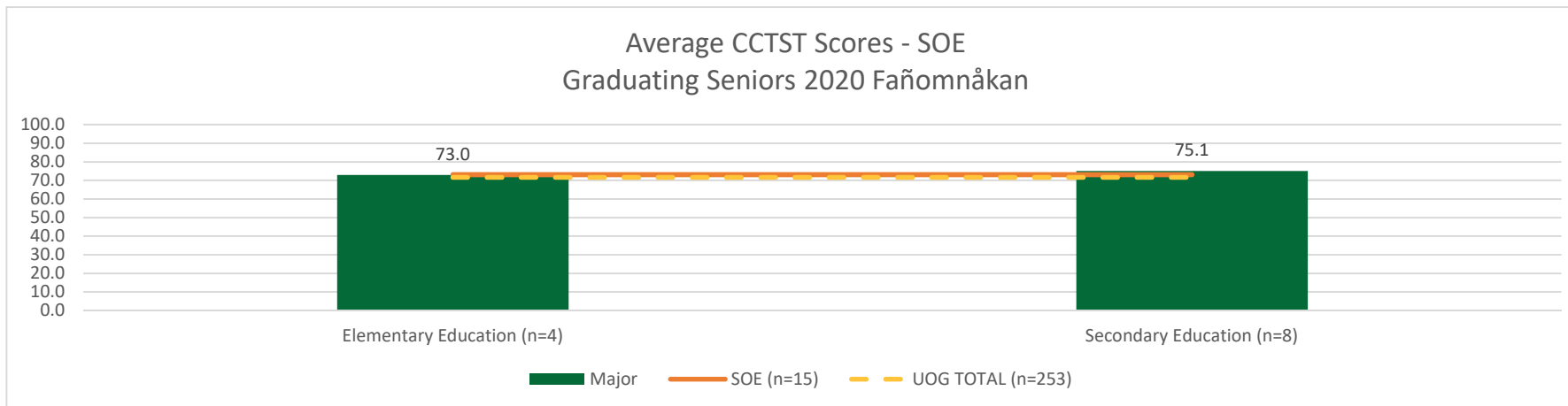
Major	OVERALL Average	OVERALL St Dev	Average							
			Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
Health Science (n=13)	69.8	4.8	30.5	72.7	75.2	71.2	68.8	70.4	75.2	68.5
Nursing (n=24)	71.0	4.5	35.6	71.5	78.9	74.4	67.5	70.5	76.1	70.3
Social Work (n=20)	70.7	5.9	32.8	69.3	81.2	72.4	69.2	70.7	76.8	68.8
SOH (n=57)	70.6	7.6	33.4	71.0	78.9	72.9	68.4	70.6	76.1	69.3
UOG TOTAL (n=253)	71.6	6.2	37.8	72.3	78.3	74.0	70.1	71.8	76.7	70.6





2020 Fañomnåkan California Critical Thinking Skills Test Average Scores - SOE

Major	OVERALL Average	OVERALL St Dev	Average							
			Percentile	Analysis	Interpretation	Inference	Evaluation	Explanation	Induction	Deduction
Elementary Education (n=4)	73.0	5.4	46.3	71.3	84.0	76.3	70.0	72.5	78.5	71.3
Secondary Education (n=8)	75.1	8.1	49.4	76.9	75.9	78.1	75.4	77.5	79.8	74.3
SOE (n=15)	73.1	5.0	44.1	74.7	77.7	76.2	71.5	73.3	77.7	72.3
UOG TOTAL (n=253)	71.6	6.2	37.8	72.3	78.3	74.0	70.1	71.8	76.7	70.6



The following majors did not have enough students to report: Early Childhood and Physical Education/School Health

