Detailed Analysis

SLO 02: “Create oral presentations appropriate to the construction discipline.”

Course: CMGT 42107-001 Construction Scheduling

Assessment Date: Fall 2016

Goal: 70% achieve 70% or better on the assignment

Results: 93% achieved 70% or better

1. Assignment........................................................................................................... Exhibit (1)
2. Summary Data Sheet (Results)............................................................................. Exhibit (2)
3. Assessment of Assignment.................................................................................. Exhibit (3)
4. Improvements and Adjustments.......................................................................... Exhibit (4)
Kent State University
CMGT 42107-Construction Scheduling
Fall 2016

SLO 2: Create oral presentations appropriate to the construction discipline.

Assessment of Assignment

The assignment requires students to make oral presentation using PowerPoint slides. This presentation is based on a cost loaded Primavera P6 schedule for a commercial project created by the students. Each student presents the network logic diagram, schedule, durations, crew sizes, issues, and cost in a 15-minute presentation.

A good presentation could make a difference between losing and winning a project. Students are therefore not only taught how to create presentations and prove understanding of the project and scheduling concept, but how to make effective oral presentations and engage their audience. The assignment was designed to test student’s skills and proficiency in creating oral presentations. The oral presentation on project schedule in this assignment is appropriate to the construction discipline.
Detailed Analysis

SLO 05: “Create construction project schedules.”

Course: CMGT 42107-001 Construction Scheduling

Assessment Date: Fall 2016

Goal: 70% achieve 70% or better on the assignment

Results: 93% achieved 70% or better

1. Assignment................................................................. Exhibit (1)
2. Summary Data Sheet (Results)........................................... Exhibit (2)
3. Assessment of Assignment............................................. Exhibit (3)
4. Improvements and Adjustments....................................... Exhibit (4)
SLO 5: Create construction project schedules.

Improvements and Adjustments

We reviewed the assignment to ensure that it is adequately addressing the SLO. The assessment met our goals and effectively assessed the SLO. No changes were determined to be required at this point.
Detailed Analysis

SLO 07: “Analyze construction documents for planning and management of construction processes.”

Course: CMGT 42107-001 Construction Scheduling

Assessment Date: Fall 2016

Goal: 70% achieve 70% or better on the assignment

Results: 93% achieved 70% or better

1. Assignment............................................................................................................ Exhibit (1)
2. Summary Data Sheet (Results).................................................................................... Exhibit (2)
3. Assessment of Assignment......................................................................................... Exhibit (3)
4. Improvements and Adjustments.................................................................................. Exhibit (4)
Kent State University
CMGT 42107-Construction Scheduling

Fall 2016

SLO 7: Analyze construction documents for planning and management of construction processes

Improvements and Adjustments

The assignment was reviewed to ensure it is addressing the SLO. The following improvements and adjustments will be made to the assignment:

- The students are provided with only drawings for the schedule completion. We shall include other construction documents such as the specifications, general and supplementary conditions.
- The assignment will also be modified to require students to explain the use of the documents for clarification, planning, checklists, compliance inspections, communications and verification in different stages of the construction process.
- The students are taught how to use the construction documents for planning the construction process so we will consider requiring the students to explain in detail the planning activities from the analysis of the documents.
- We also considered including or creating a narrative from the students perspective relative to key take-aways from the construction documents that they have included in their construction schedule. This document will itemize the key information from the documents to ensure student understanding of the connection between the documents and the production schedule.
Detailed Analysis

SLO 10: "Apply electronic-based technology to manage the construction process."

Course: CMGT 42107-001 Construction Scheduling

Assessment Date: Fall 2016

Goal: 70% achieve 70% or better on the assignment

Results: 93% achieved 70% or better

1. Assignment.................................................................................................................. Exhibit (1)
2. Summary Data Sheet (Results).................................................................................. Exhibit (2)
3. Assessment of Assignment....................................................................................... Exhibit (3)
4. Improvements and Adjustments............................................................................... Exhibit (4)
Kent State University
CMGT 42107-Construction Scheduling

Fall 2016

SLO 10: Apply electronic-based technology to manage the construction process

Improvements and adjustments

We reviewed the assignment to ensure it is addressing the SLO.

The students are taught in conjunction with the scheduling software and tools, how to use other management software such as PROCORE to manage RFI, change orders, submittals, payment requisitions, daily reports, etc. We will consider including this in the assignment to enhance the integration of the electronic-based technology.

We will require students to explain in detail how they will use the schedule to achieve the project goals of time, quality, cost and safety. This will also be included in the presentation of the schedules. As part of improving the knowledge of applying the schedule as a management tool, we will consider providing some scenarios on the project and requiring students to explain how the schedule can be used in those scenarios or situations. Further, we will analyze and teach on how the electronic-based technology is utilized to improve communication, decrease the time of work, and minimize errors. Currently, a progression from “by-hand” work to computerized management tools is emphasized and demonstrated; however, effort will be made to further emphasize the value and availability of electronic-based technology.
Detailed Analysis

SLO 16: “Understand construction project control processes.”

Course: CMGT 42107-001 Construction Scheduling

Assessment Date: Fall 2016

Goal: 70% achieve 70% or better on the assignment

Results: 93% achieved 70% or better

1. Assignment........................................................................................................ Exhibit (1)
2. Summary Data Sheet (Results).............................................................................. Exhibit (2)
3. Assessment of Assignment.................................................................................. Exhibit (3)
4. Improvements and Adjustments.......................................................................... Exhibit (4)
The assignment was reviewed to ensure it is addressing the SLO.

Students are taught how to use the schedule to control the project. As an improvement, we will teach the students in more detail and require students to explain in their presentations how they should and will use the schedule to control and manage the project. They will be asked to provide details in terms of controlling the cost, time and quality of the project. We will also discuss the importance of establishing and communicating these control processes to the team, and what items are most crucial to communicate to the team. Emphasis will be placed on the fact that the software is merely a tool, and that packaging the data that has been input by the manager in a clear concise way to direct all parties involved in the project. It was discussed that a written narrative, beyond the presentation, of how the tool would be used on the project might be added to the assignment.
Preview Upload Assignment: P6 Final Exam Project

You are previewing the assignment - your submission will not be saved.

1. Assignment Information

<table>
<thead>
<tr>
<th>Due Date</th>
<th>Points Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, December 14, 2016 11:59 PM</td>
<td>250</td>
</tr>
</tbody>
</table>

Using the Orchard Creek Apartments Construction Drawings, create a computerized construction schedule using the P6 scheduling software. This schedule will be resource and cost loaded and you will be required to present your schedule to the class upon the completion of the work.

The deliverables for this assignment are:
1) Complete P6 schedule - 100 pts
2) Schedule showing costs and cashflow chart - 20 pts
3) Schedule organized by subcontractor - 20 pts
4) Two week look ahead - 20 pts
5) Cost budget report showing all costs per activity, in a tabular report - 20 pts
6) Subcontractor reports, filtered by sub for mason, framing sub, mechanical, drywall and flooring - 20 pts
7) Presentation, which will consist of discussing each of the above items with the class - 50 pts

More details and expectations to be discussed in lab sessions.

This project is an individual project to measure your proficiency in understanding the scheduling concepts as well as implementing them into a computerized schedule.

Second Floor Plan.pdf
Community Building Plan and Elevations.pdf
Elevations Main Buildings.pdf
First Floor Plan.pdf

When finished, make sure to click Submit.
Optionally, click Save as Draft to save changes and continue working later, or click Cancel to quit without saving chu
You are previewing the assignment - your submission will not be saved.
3. **Add Comments**

Comments

Character count: 0

4. **Submit**

When finished, make sure to click **Submit**.
Optionally, click **Save as Draft** to save changes and continue working later, or click **Cancel** to quit without saving your changes.

You are previewing the assignment - your submission will not be saved.
Using the Orchard Creek Apartments Construction Drawings, create a computerized construction schedule using the P6 scheduling software. This schedule will be resource and cost loaded and you will be required to present your schedule to the class upon the completion of the work.

The deliverables for this assignment are:

1) Complete P6 schedule - 100 pts
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3) Schedule organized by subcontractor - 20 pts
4) Two week look ahead - 20 pts
5) Cost budget report showing all costs per activity, in a tabular report - 20 pts
6) Subcontractor reports, filtered by subcontractors – mason sub, framing sub, mechanical sub, drywall sub and flooring sub - 20 pts
7) Presentation, which will consist of discussing each of the above items with the class. More details and expectations to be discussed in lab sessions. - 50 pts

This project is an individual project to measure your proficiency in understanding the scheduling concepts as well as implementing them into a computerized schedule.

**SPECIAL INSTRUCTIONS:**

1) DUE: December 14, 2016

2) Use November 30, 2016 as your start date

3) Use a five day work week for your calendar as your base line and adjust as necessary to improve your schedule. (If you do this, you will need to justify the overhead costs and productivity reduction when using extensive overtime)

4) Include the following activities and dates for site work as you do not have detailed Civil Drawings. For the purpose of this schedule, complete all of this work prior to beginning the slab on grade. (These are durations of the activities but the start days may overlap)

   a. Erosion Control/Clear and Grub/Surveying- 17 days
   b. Retention Pond – 15 days
   c. Mass Grading- 18 days
   d. Utilities- 22 days
   e. Paving/Sidewalks- 19 days
   f. Building Pad Preparation- 20 days
5) Your presentation will be no more than fifteen minutes and must include the following points:

a. Duration in months of the entire project
b. Milestone dates for all buildings (i.e. slab poured, framing complete, rough-in inspection, finishes complete, Certificate of Occupancy inspection)
c. Any overlaps in tasks/ideas you used to reduce the scheduled duration
d. Problems you see in the schedule (i.e. cash flow, manpower)
e. Whatever you feel needs to be presented to communicate your schedule to the professor and the class (your construction team)

6) Use the costs below to add resources to the schedule. The costs are for the entire project, including the clubhouse. Also, each cost line item represents a separate subcontractor or vendor so as you enter the costs, you can also apply the vendor to the line item as a resource.

<table>
<thead>
<tr>
<th>02-000 Division 02 Site Construction</th>
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<tbody>
<tr>
<td>02-120 Demolition / Debris Removal</td>
<td>$18,000.00</td>
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<tr>
<td>02-230 Clear and Grub Site</td>
<td>$21,000.00</td>
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<td>02-300 Earthwork</td>
<td>$37,000.00</td>
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<tr>
<td>02-370 Erosion and Sedimentation Control</td>
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<td>02-410 Import Select/Structural Fill</td>
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<td>02-430 Export Excess/Unsuitable Fill</td>
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<td>02-510 Domestic Water Distribution</td>
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<td>02-515 Fire Line</td>
<td>$67,000.00</td>
</tr>
<tr>
<td>02-530 Sanitary Sewer System</td>
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<tr>
<td>02-630 Storm Sewer System</td>
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<tr>
<td>02-710 Asphalt Paving (Inc Stone Base)</td>
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<tr>
<td>02-765 Site Concrete</td>
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<tr>
<td>02-770 Curb and Gutter</td>
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<tr>
<td>02-900 Landscaping (Allowance)</td>
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<table>
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<tr>
<td>03-300 Cast In Place Concrete</td>
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<td>03-400 Pest Control Pre-Treatment</td>
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<td>03-540 Cementitious Underlayment</td>
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<td>04-210 Masonry Veneer</td>
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<td>05-520 Handrails &amp; Railings</td>
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<tr>
<td>06-100 TOTAL ROUGH FRAMING COSTS</td>
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<tr>
<td>06-200</td>
<td>Finish Carpentry - Labor</td>
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<td>06-220</td>
<td>Interior Trim Materials (Millwork)</td>
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<tr>
<td>06-410</td>
<td>Cabinets &amp; Countertops</td>
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<tr>
<td>07-000</td>
<td>Division 7 Thrml &amp; Mstr Protection</td>
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<tr>
<td>07-210</td>
<td>Insulation-Walls/Ceilings</td>
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<td>07-310</td>
<td>Roofing Systems-Shingles</td>
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<tr>
<td>07-460</td>
<td>Siding Systems</td>
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<tr>
<td>07-601</td>
<td>Gutters &amp; Downspouts</td>
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<tr>
<td>08-000</td>
<td>Division 8 Windows &amp; Doors</td>
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<tr>
<td>08-111</td>
<td>Metal Doors &amp; Frames-Material</td>
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<td>08-211</td>
<td>Interior Wood Doors-Material</td>
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<td>08-600</td>
<td>Windows-Material</td>
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<td>08-650</td>
<td>Windborne Debris Window Panels</td>
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<td>Finish Hardware-Material</td>
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<td>09-680</td>
<td>Carpet</td>
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<tr>
<td>09-910</td>
<td>Painting</td>
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<td>09-920</td>
<td>Tub Repairs</td>
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<td>09-990</td>
<td>Final Cleaning</td>
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<td>Community Signage</td>
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<td>Fire Ext. &amp; Cabinets</td>
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<td>10-800</td>
<td>Bath Accessories</td>
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<td>10-900</td>
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<td>Residential Appliances</td>
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<td>Division 12 Furnishings</td>
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<td>Plumbing</td>
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<td>Auto Fire Sprinkler Systems</td>
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<td>HVAC</td>
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<td>16-000</td>
<td>Division 16 Electrical</td>
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<td>Electrical</td>
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<td>16-510</td>
<td>Fire Alarm</td>
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**TOTAL** $4,140,200.00
# Column Statistics

Users who are unavailable are not included in column statistics. To include them, select the check box and click **Refresh**. To view statistics for another column, select the column name and click **Go** or click the next or previous arrows to navigate sequentially.

Column:  

Show Statistics For:  

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**Column Details**

**Column**  
P6 Final Exam Project (Final Exams)  

**Points Possible**  
250  

**Description**  

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<th>Grade Distribution</th>
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<td>90 - 100</td>
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<td>40 - 49</td>
</tr>
<tr>
<td>Variance</td>
<td></td>
<td>30 - 39</td>
</tr>
</tbody>
</table>

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атурне відображення документа як якби читали його природним чином.
Kent State University
CMGT 42107-Construction Scheduling
Fall 2016

SLO 2: Create oral presentations appropriate to the construction discipline.

Improvements and Adjustments

We reviewed the assignment to ensure that it is adequately addressing the SLO. The following improvement or adjustment will be made to the assignment:

- The oral presentation will be separated from the final exam on blackboard. Column statistics can then be printed for the oral presentation only.
- We are also considering having a preliminary presentation before the final presentation. Some professors will be invited for the preliminary presentation and provide feedback to the students for improvement before the final presentation.
Detailed Analysis

SLO 15: “Understand construction quality assurance and control.”

Course: CMGT 10001-001-Introduction to Construction Management

Assessment Date: Spring 2017

Goal: 70% achieve 70% or better on the assignment

Results: 54% achieved 70% or better on the assignment

1. Assignment...........................................................................................................................................Exhibit (1)
2. Summary and Data Sheet (Results)....................................................................................................Exhibit (2)
3. Assessment of Assignment................................................................................................................Exhibit (3)
4. Improvements and Adjustments........................................................................................................Exhibit (4)

Kent State University-Construction Management ACCE Site Visit-Fall 2017
Test Canvas: Module 4 Quality

You can edit, delete, or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes.

Description
Instructions
Total Questions 10
Total Points 10
Number of Attempts 45

Select: All None Select by Type: Question Type
Delete and Regrade Points Update and Regrade Hide Question Details

1 - 10. Question Set

Total Questions: 40
Number of Questions to display: 10

Points per question: 1
Total Points: 10

Questions in the Set

Question Display

- Question Type
- Question Text
- True/False Wrap-Type air retarders and liquid air retarders can not be used interchangeably in an assembly.
- Multiple Choice Blown-in insulation is most common in which location

Alignment Count
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0
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<tr>
<th>Question Type</th>
<th>Question Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple Choice</td>
<td>Air leakage through a building envelope is a function of</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The primary purpose of sealants and weather stripping is to</td>
</tr>
<tr>
<td>True/False</td>
<td>A building assembly with a higher U-value is thermally more insulating than one with a lower U-value.</td>
</tr>
<tr>
<td>True/False</td>
<td>Using aluminum foil in a vertical air space is greater than in the attic.</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>Which of the following insulations is combustible?</td>
</tr>
<tr>
<td>True/False</td>
<td>Insulating is most effective if it is placed on the outside face of the assembly.</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The unit of measure of energy in the SI system is the</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The unit for measure of energy in the U.S. system of units is the</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>Which of the following materials has the smallest value of emissivity?</td>
</tr>
<tr>
<td>True/False</td>
<td>Radiation is the transfer of energy between two objects in the form of electromagnetic waves.</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The number of Major earthquakes that happen on earth per year are</td>
</tr>
<tr>
<td>True/False</td>
<td>Everything else being the same, a building constructed of heavyweight materials is subjected to a greater earthquake load than a building constructed of lightweight materials.</td>
</tr>
<tr>
<td>True/False</td>
<td>The R-value of a material is the same whether it is wet or dry.</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>Apart from the climate of the location, the other factors that affect energy-conscious building design are</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The Highest wind speeds are usually obtained in</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>On a leeward wall, the wind pressure</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>A light earthquake is between which numbers on the Richter Magnitude</td>
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<tr>
<td>Question Type</td>
<td>Question Text</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>According to the geologists, the earth's surface is composed of several segments that are called</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>Which of the following occupancies has the highest floor live load?</td>
</tr>
<tr>
<td>Multiple Answer</td>
<td>Which are the two main categories that all building loads will be classified under</td>
</tr>
<tr>
<td>True/False</td>
<td>The roof live load is generally greater than the floor live load.</td>
</tr>
<tr>
<td>True/False</td>
<td>An Average tornado strikes a smaller area on the ground than a hurricane.</td>
</tr>
<tr>
<td>True/False</td>
<td>A prescriptive building code provision is easier to enforce than a performance provision.</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>A hotel building is a</td>
</tr>
<tr>
<td>True/False</td>
<td>A prescriptive code needs standards.</td>
</tr>
<tr>
<td>True/False</td>
<td>The Americans with Disabilities Act is devoted entirely to provisions relating to accessibility within a building.</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The person in charge of enforcing building codes is generally called a</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The building code requirements for an exit door including height and width, direction of swing, and panic bars are</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The total number of occupancies (excluding the divisions) as specified in the International Building Code is.</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>The International Code Council was founded in what year?</td>
</tr>
<tr>
<td>True/False</td>
<td>In a building code Structural Safety is one of the primary objectives and accounts for the largest volume of the building code.</td>
</tr>
<tr>
<td>Multiple Choice</td>
<td>Before commencing the construction of a building, the owner must apply to the city to obtain a</td>
</tr>
<tr>
<td>True/False</td>
<td>Ventilation of an attic space is generally considered important in all climates.</td>
</tr>
</tbody>
</table>
True/False  In general the greater the thickness of a material, the greater its perm rating is.

Multiple Choice  An ice dam is likely to occur

Multiple Choice  Which of the following materials has the lowest perm rating?

True/False  Soffit vents alone are not adequate to provide attic ventilation.

True/False  In heated buildings, the vapor flow is generally from the outside to the inside of the envelope.
# Column Statistics

## Column Details

**Column**
- Module 4 Quality (Test)

**Points Possible**
- 10

**Description**

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<td>Maximum Value: 10.00</td>
<td>Needs Grading: 1</td>
<td>80 - 89: 9</td>
</tr>
<tr>
<td>Range: 10.00</td>
<td>Exempt: 0</td>
<td>70 - 79: 9</td>
</tr>
<tr>
<td>Average: 6.08</td>
<td></td>
<td>60 - 69: 6</td>
</tr>
<tr>
<td>Median: 7.00</td>
<td></td>
<td>50 - 59: 6</td>
</tr>
<tr>
<td>Standard Deviation: 2.85</td>
<td></td>
<td>40 - 49: 3</td>
</tr>
<tr>
<td>Variance: 8.11</td>
<td></td>
<td>30 - 39: 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 - 29: 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 - 19: 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 - 9: 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Less than 0: 0</td>
</tr>
</tbody>
</table>

→ OK
In the introduction to construction management course, we introduce and assess the students’ knowledge of construction quality and control. This assessment includes a ten question quiz which tests the students’ knowledge of construction quality assurance and control. The course covers six class periods devoted to quality in relation to construction; and this quiz tests their knowledge on that material.

The assignment is an individual assessment of the student’s proficiency in understanding construction quality assurance and control. The quiz is created from a pool of 40 questions and are randomized when delivered.
SLO 15: Understand construction quality assurance and control

Improvements and Adjustments

We did not meet or goal of 70% of the students achieve 70% or better on the assessment; and after an extensive review, there are a couple of reasons for this, and opportunities to adjust the assignment content and weight in order to achieve our goal.

We performed an in-depth review of the question content (information attached) and determined that there was a weakness in students’ scores on some questions, specifically related to construction material quality. I am adjusting my teaching method to spend more time, and address quality issues specific to material selection and quality.

Another method to increase our scores is to put more weight on this assessment. Since this assessment is only worth 20 points (out of 780 total points) it represents a very small percentage of the overall grade. Therefore (refer to data sheet) we had 6 students score a zero because they did not submit their quiz. This represents 12% of the student body, which has a negative effect on the scoring outcomes.

In conclusion; adding additional lecture time to material quality and selection and putting more emphasis on this assessment, should translate to an increase in scoring and content knowledge.
Item Analysis: Module 4 Quality

Select Test: Module 4 Quality

Available Analysis
Module 4 Quality - October 9, 2017 3:05 PM

Module 4 Quality
Analysis Last Run October 9, 2017 3:05 PM. Run Item Analysis again to display the latest question data

Test Summary

<table>
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<th></th>
<th>10.0</th>
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<th>0</th>
<th>45</th>
<th>6.76</th>
<th>00 hr 11 min</th>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Possible Questions</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>In Progress Attempts</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Completed Attempts</td>
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<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Average Score</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Average Time</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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Discrimination

<table>
<thead>
<tr>
<th></th>
<th>23 Good Questions</th>
<th>12 Easy Questions</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>12 Fair Questions</td>
<td>27 Medium Questions</td>
</tr>
<tr>
<td></td>
<td>0 Poor Questions</td>
<td>1 Hard Questions</td>
</tr>
<tr>
<td></td>
<td>5 Cannot Calculate</td>
<td></td>
</tr>
</tbody>
</table>

Difficulty

Filter Questions

Select Question Type:
All Question Types

Select Discrimination:
All Discrimination

Select Difficulty:
All Difficulty

Go | Reset Filter

<table>
<thead>
<tr>
<th>Question Type</th>
<th>Discrimination</th>
<th>Difficulty</th>
<th>Graded Attempts</th>
<th>Average Score</th>
<th>Std Dev</th>
<th>Std Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>In a building code</td>
<td>True/False (QS)</td>
<td>100.0%</td>
<td>10</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Structural Safety is one of the primary objectives and acc...</td>
<td>Cannot Calculate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

https://learn.kent.edu/webapps/item-analysis/itemanalysis/showItemAnalysis?action=getAnalysisData&course_id=_182149_1&analysis_id=_10134_1
According to the geologists, the earth's surface is composed of several segments...

Radiation is the transfer of energy between two objects in the form of electric...

Air leakage through a building envelope is a function of...

Ventilation of an attic space is generally considered important in all climates...

Using aluminum foil in a vertical air space is greater than in the attic...

Apart from the climate of the location, the other factors that affect energy...

The International Code Council was founded in what year?

The person in charge of enforcing building codes is generally called a...
<table>
<thead>
<tr>
<th>Question</th>
<th>Type</th>
<th>Correct Rate</th>
<th>Incorrect Rate</th>
<th>Choice 1</th>
<th>Choice 2</th>
<th>Choice 3</th>
<th>Choice 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>The total number of occupancies (excluding the divisions) as specified in the...</td>
<td>Multiple Choice (QS)</td>
<td>83.34%</td>
<td>12</td>
<td>0.84</td>
<td>0.39</td>
<td>0.12</td>
<td></td>
</tr>
<tr>
<td>The unit of measure of energy in the SI system is the</td>
<td>Multiple Choice (QS)</td>
<td>92.86%</td>
<td>14</td>
<td>0.93</td>
<td>0.27</td>
<td>0.08</td>
<td></td>
</tr>
<tr>
<td>Soffit vents alone are not adequate to provide attic ventilation.</td>
<td>True/False (QS)</td>
<td>75.0%</td>
<td>8</td>
<td>0.75</td>
<td>0.47</td>
<td>0.17</td>
<td></td>
</tr>
<tr>
<td>An ice dam is likely to occur</td>
<td>Multiple Choice (QS)</td>
<td>77.78%</td>
<td>9</td>
<td>0.78</td>
<td>0.45</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>A hotel building is a</td>
<td>Multiple Choice (QS)</td>
<td>50.0%</td>
<td>10</td>
<td>0.5</td>
<td>0.53</td>
<td>0.17</td>
<td></td>
</tr>
<tr>
<td>Before commencing the construction of a building, the owner must apply to the...</td>
<td>Multiple Choice (QS)</td>
<td>53.85%</td>
<td>13</td>
<td>0.54</td>
<td>0.52</td>
<td>0.15</td>
<td></td>
</tr>
<tr>
<td>The R-value of a material is the same whether it is wet or dry.</td>
<td>True/False (QS)</td>
<td>81.82%</td>
<td>11</td>
<td>0.82</td>
<td>0.41</td>
<td>0.13</td>
<td></td>
</tr>
<tr>
<td>Wrap-Type air retarders and liquid air retarders can not be used interchangea...</td>
<td>True/False (QS)</td>
<td>56.25%</td>
<td>16</td>
<td>0.57</td>
<td>0.52</td>
<td>0.13</td>
<td></td>
</tr>
<tr>
<td>Which are the two main categories that all building loads will be classified ...</td>
<td>Multiple Answer (QS)</td>
<td>50.0%</td>
<td>8</td>
<td>0.5</td>
<td>0.54</td>
<td>0.19</td>
<td></td>
</tr>
<tr>
<td>A light earthquake is between which numbers on the Richter Magnitude</td>
<td>Multiple Choice (QS)</td>
<td>75.0%</td>
<td>12</td>
<td>0.75</td>
<td>0.46</td>
<td>0.14</td>
<td></td>
</tr>
<tr>
<td>Question</td>
<td>Type</td>
<td>Correctness</td>
<td>Q2</td>
<td>Q1</td>
<td>Q3</td>
<td>Q4</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>---------------</td>
<td>-------------</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td></td>
</tr>
<tr>
<td>A building assembly with a higher U-value is thermally more insulating than c...</td>
<td>True/False (QS)</td>
<td>0.52</td>
<td>60.01%</td>
<td>10</td>
<td>0.61</td>
<td>0.52</td>
<td>0.17</td>
</tr>
<tr>
<td>In general the greater the thickness of a material, the greater its perm rati...</td>
<td>True/False (QS)</td>
<td>0.52</td>
<td>60.01%</td>
<td>5</td>
<td>0.61</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>The Americans with Disabilities Act is devoted entirely to provisions relat...</td>
<td>True/False (QS)</td>
<td>0.53</td>
<td>58.34%</td>
<td>12</td>
<td>0.59</td>
<td>0.52</td>
<td>0.15</td>
</tr>
<tr>
<td>An Average tornado strikes a smaller area on the ground than a hurricane.</td>
<td>True/False (QS)</td>
<td>0.55</td>
<td>87.5%</td>
<td>16</td>
<td>0.88</td>
<td>0.35</td>
<td>0.09</td>
</tr>
<tr>
<td>The unit for measure of energy in the U.S. system of units is the</td>
<td>Multiple Choice (QS)</td>
<td>0.55</td>
<td>50.0%</td>
<td>10</td>
<td>0.5</td>
<td>0.53</td>
<td>0.17</td>
</tr>
<tr>
<td>Insulating is most effective if it is placed on the outside face of the assem...</td>
<td>True/False (QS)</td>
<td>0.57</td>
<td>56.25%</td>
<td>16</td>
<td>0.57</td>
<td>0.52</td>
<td>0.13</td>
</tr>
<tr>
<td>A prescriptive code needs standards.</td>
<td>True/False (QS)</td>
<td>0.61</td>
<td>36.37%</td>
<td>11</td>
<td>0.37</td>
<td>0.51</td>
<td>0.16</td>
</tr>
<tr>
<td>The number of Major earthquakes that happen on earth per year are</td>
<td>Multiple Choice (QS)</td>
<td>0.61</td>
<td>87.5%</td>
<td>16</td>
<td>0.88</td>
<td>0.35</td>
<td>0.09</td>
</tr>
<tr>
<td>The Highest wind speeds are usually obtained in</td>
<td>Multiple Choice (QS)</td>
<td>0.64</td>
<td>57.15%</td>
<td>14</td>
<td>0.58</td>
<td>0.52</td>
<td>0.14</td>
</tr>
<tr>
<td>Question</td>
<td>Type</td>
<td>Difficulty</td>
<td>Correct %</td>
<td>Correct</td>
<td>Incorrect</td>
<td>Range</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>--------------------</td>
<td>------------</td>
<td>-----------</td>
<td>---------</td>
<td>-----------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>The primary purpose of sealants and weather stripping is to</td>
<td>Multiple Choice (QS)</td>
<td>0.66</td>
<td>40.0%</td>
<td>0.41</td>
<td>0.52</td>
<td>0.17</td>
<td></td>
</tr>
<tr>
<td>Which of the following occupancies has the highest floor live load?</td>
<td>Multiple Choice (QS)</td>
<td>0.69</td>
<td>70.0%</td>
<td>0.7</td>
<td>0.49</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>Which of the following materials has the lowest perm rating?</td>
<td>Multiple Choice (QS)</td>
<td>0.69</td>
<td>50.0%</td>
<td>0.5</td>
<td>0.53</td>
<td>0.17</td>
<td></td>
</tr>
<tr>
<td>Which of the following materials has the smallest value of emissivity?</td>
<td>Multiple Choice (QS)</td>
<td>0.7</td>
<td>76.93%</td>
<td>0.77</td>
<td>0.44</td>
<td>0.13</td>
<td></td>
</tr>
<tr>
<td><strong>Everything else being the same, a building constructed of heavy weight materials</strong></td>
<td>True/False (QS)</td>
<td>0.71</td>
<td>58.34%</td>
<td>0.59</td>
<td>0.52</td>
<td>0.15</td>
<td></td>
</tr>
<tr>
<td>Which of the following insulations is combustible?</td>
<td>Multiple Choice (QS)</td>
<td>0.71</td>
<td>75.0%</td>
<td>0.75</td>
<td>0.46</td>
<td>0.14</td>
<td></td>
</tr>
<tr>
<td>A prescriptive building code provision is easier to enforce than a performance...</td>
<td>True/False (QS)</td>
<td>0.75</td>
<td>88.89%</td>
<td>0.89</td>
<td>0.34</td>
<td>0.12</td>
<td></td>
</tr>
<tr>
<td>The building code requirements for an exit door including height and width, d...</td>
<td>Multiple Choice (QS)</td>
<td>0.76</td>
<td>75.0%</td>
<td>0.75</td>
<td>0.47</td>
<td>0.17</td>
<td></td>
</tr>
<tr>
<td>In heated buildings, the vapor flow is generally from the outside to the inside...</td>
<td>True/False (QS)</td>
<td>0.8</td>
<td>54.55%</td>
<td>0.55</td>
<td>0.53</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>Question</td>
<td>Type</td>
<td>Quality</td>
<td>Average</td>
<td>Frequency</td>
<td>Correct</td>
<td>Confidence</td>
<td>Standard Error</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>-----------------</td>
<td>---------</td>
<td>---------</td>
<td>-----------</td>
<td>---------</td>
<td>------------</td>
<td>----------------</td>
</tr>
<tr>
<td>On a leeward wall, the wind pressure</td>
<td>Multiple Choice</td>
<td>0.82</td>
<td>30.01%</td>
<td>10</td>
<td>0.31</td>
<td>0.49</td>
<td>0.16</td>
</tr>
<tr>
<td>Blown-in insulation is most common in which location</td>
<td>Multiple Choice</td>
<td>0.83</td>
<td>66.67%</td>
<td>6</td>
<td>0.67</td>
<td>0.52</td>
<td>0.22</td>
</tr>
<tr>
<td>The roof live load is generally greater that the floor live load.</td>
<td>True/False</td>
<td>0.84</td>
<td>75.0%</td>
<td>8</td>
<td>0.75</td>
<td>0.47</td>
<td>0.17</td>
</tr>
</tbody>
</table>

**Legend**

- Review recommended
- Questions might have changed after deployment
- Not all submissions have been graded
- (QS) Question Set
- (RB) Random Block
Detailed Analysis

SLO 17: "Understand the legal implications of contract, common, and regulatory law to manage a construction project."

Course: CMGT 42105 - Construction Contracts and Law

Assessment Date: Spring 2017

Goal: 70% achieve 70% or better on the assignment

Results: 93% achieved 70% or better

1. Assignment.................................................................................................................. Exhibit (1)
2. Summary Data Sheet (Results).................................................................................. Exhibit (2)
3. Assessment of Assignment ......................................................................................... Exhibit (3)
4. Improvements and Adjustments.................................................................................. Exhibit (4)
This Test has 31 attempts. For information on editing questions, click More Help below.

Test Canvas: Final Exam (Comprehensive)

The Test Canvas allows you to add and edit questions, add question sets or random blocks, reorder questions, and review the test. More Help

You can edit, delete, or change the point values of test questions on this page. If necessary, test attempts will be regraded after you submit your changes.

Description
Instructions
Total Questions 50
Total Points 50
Number of Attempts 31

Select: All None Select by Type: - Question Type -
Delete and Regrade Points Update and Regrade Hide Question Details

☐ 1 - 10. Random Block

Total Questions:
Number of Questions to display:
Source Pool: 25_Negotiation
Question Types: All Pool Questions

Points per question: 1
Total Points: 10
Random Block

Total Questions: 326
Number of Questions to display: 40
Source Pool: 01_Legal Context of Construction, 02_Interpreting the Contract, 03_Project Delivery Methods, 07_Competing for the Contract, 09_Authority and Responsibility of the Design Professional, 10_Subcontractor Administration & Dispute Avoidance, 11_Changes to the Contract, 12_Differing Site Conditions, 13_Schedules, Delays and Acceleration, 15_Mgmt. Techniques to Limit Risk_Avoid Disputes, 18_Proving Costs and Damages, 23_Resolution of Construction Disputes

Question Types:

Preview questions that match selected criteria

Select: All, None | Select by Type: - Question Type - ☑
Delete and Regrade | Points Update and Regrade | Hide Question Details

← OK
# Column Statistics

Users who are unavailable are not included in column statistics. To include them, select the check box and click **Refresh**. To view statistics for another column, select the column name and click **Go** or click the next or previous arrows to navigate sequentially.

Column: [Select]  
Go  Show Statistics For: [Available Users only]  

Column: Final Exam (Comprehensive) (Test)

## Column Details

<table>
<thead>
<tr>
<th>Column</th>
<th>Final Exam (Comprehensive) (Test)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Points Possible</td>
<td>50</td>
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</tbody>
</table>

## Statistics

<table>
<thead>
<tr>
<th>Statistics</th>
<th>Count</th>
<th>Status Distribution</th>
<th>Grade Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count</td>
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<td>Null</td>
<td>Greater than 100</td>
</tr>
<tr>
<td>Minimum Value</td>
<td>33.75</td>
<td>In Progress</td>
<td>90 - 100</td>
</tr>
<tr>
<td>Maximum Value</td>
<td>49.00</td>
<td>Needs Grading</td>
<td>80 - 89</td>
</tr>
<tr>
<td>Range</td>
<td>15.25</td>
<td>Exempt</td>
<td>70 - 79</td>
</tr>
<tr>
<td>Average</td>
<td>41.57</td>
<td></td>
<td>60 - 69</td>
</tr>
<tr>
<td>Median</td>
<td>41.67</td>
<td></td>
<td>50 - 59</td>
</tr>
<tr>
<td>Standard Deviation</td>
<td>3.68</td>
<td></td>
<td>40 - 49</td>
</tr>
<tr>
<td>Variance</td>
<td>13.54</td>
<td></td>
<td>30 - 39</td>
</tr>
</tbody>
</table>

### Grade Distribution

- Greater than 100: 0
- 90 - 100: 4
- 80 - 89: 18
- 70 - 79: 7
- 60 - 69: 2
- 50 - 59: 0
- 40 - 49: 0
- 30 - 39: 0
- 20 - 29: 0
- 10 - 19: 0
- 0 - 9: 0
- Less than 0: 0
Item Analysis: Final Exam (Comprehensive)

The Item Analysis tool provides statistics on overall test performance and individual test questions to help you recognize questions that might be poor discriminators of student performance. You can use this information to improve questions for future test administrations or to adjust credit on current attempts. You can run item analyses on deployed tests, but not on surveys. Access previously run item analyses under the Available Analysis heading or select a deployed test from the drop-down list and click Run to generate a new report. More Help.

Select Test: Final Exam (Comprehensive)  Run

Available Analysis
Final Exam (Comprehensive) - October 5, 2017 3:03 PM

Final Exam (Comprehensive)
Analysis Last Run: October 5, 2017 3:03 PM. Run Item Analysis again to display the latest question data

Test Summary

<table>
<thead>
<tr>
<th>Points</th>
<th>Questions</th>
<th>Attempts</th>
<th>Score</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>50.0</td>
<td>327</td>
<td>0</td>
<td>31</td>
<td>0 hr 42 min</td>
</tr>
</tbody>
</table>

Discrimination

<table>
<thead>
<tr>
<th>67 Good Questions</th>
<th>228 Easy Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 Fair Questions</td>
<td>85 Medium Questions</td>
</tr>
<tr>
<td>40 Poor Questions</td>
<td>14 Hard Questions</td>
</tr>
<tr>
<td>198 Cannot Calculate</td>
<td></td>
</tr>
</tbody>
</table>

Filter Questions

<table>
<thead>
<tr>
<th>Question</th>
<th>Question Type</th>
<th>Discrimination</th>
<th>Difficulty</th>
<th>Graded Attempts</th>
<th>Average Score</th>
<th>Std Dev</th>
<th>Std Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Question 1: A contract can be simply defined as a set of promises that a part...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 2: Contract law reflects common law of contracts as set forth in court decisions...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
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<tr>
<td>Question 5: Implied contract obligations are clearly spelled out in the contract...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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<tr>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
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<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
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<tr>
<td>Question 8: If the parties’ conduct or the circumstances suggests they had an agreement o...</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 11: Which of the following is true of the obligation to cooperate and coordinate?</td>
<td>Multiple</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 14: If a tort was not committed intentionally, it is most likely a case of neglig...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 19: What is strict liability?</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 20: Contracts and tort bodies of law reflect, rather than dictate, the customs, v...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 21: Unlike statutory and regulatory laws, common laws are made by some governing ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 1: The parties to a contract are bound to each other for a certain period of tim...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 2: A contractual relationship is expected to persist until the contract is...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 5: After an offer is accepted it can still be withdrawn because it is not a con...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 7: Most bid bonds must be accepted within the prescribed period of time sta...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>8</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 9: Consideration is the benefit that each party gets or expects to get from the ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>7</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 11: For a contract to be valid, the contracting parties must have the competency ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 15: A voidable contract is a valid contract that can be enforced, however, o...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 16: An agreement is a brief condensation of the contract that includes the s...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 19: As a primary rule, the reasonable and logical meaning of the contract l...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 20: Many jurisdictions will void certain obligations that are contrary to that ju...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 21: Which of the following is true about interpreting a contract?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 23: Which of the following are examples of a breach of the duty to cooperate?</td>
<td>Multiple</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
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<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
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<tr>
<td>Question 24: What would information contained in an agreement include?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 25: Which of the following are bid documents?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 1: Construction projects have traditionally been designed, bid, built, and paid ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 2: In the traditional project delivery system, the owner does not get the ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 4: CM is an integrated team approach to the planning, design, and construction ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 8: Agency construction manager is a Technical advisor/consultant to the owner ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 9: In the design-build delivery system, the DB firm is liable only for the design ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 11: The EPC contractor can also be a major equipment supplier who then contracts ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 13: Private public partnerships provide a way for the public agencies to share ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 16: Most critical element of successful design-build project is preparation of pr ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 17: The CM approach to project delivery is advised when the requirement to coord ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 19: In the CM delivery system, the CM's role depends on whether the CM most close ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 20: In agency construction management, the CM takes no entrepreneurial risk for c ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 21: Which of the following forms can the DB firm take?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 22: What are some of the merits of the CM project delivery system?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>83.34%</td>
<td>1</td>
<td>0.84</td>
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</tr>
<tr>
<td>Question 23: When is it most advisable to use the CM project delivery system?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 26: What are the advantages of design-bid-build?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
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<tr>
<td>Question 1: If the GC has established all the elements of an action based on promissory e...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 2: Most courts hold that the contractor CAN NOT enforce a subcontractor's b...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>7</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 3: Under the promissory estoppel, promise is enforceable by law when a promisor ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 5: Once the contract is awarded, it is difficult to reverse the decision of the ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>7</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 6: Bid protests arise almost exclusively in connection with sealed bids or comp...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 7: The guiding principle in bid protests is quickness since most regulations req...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 8: The general contractor may have the duty to notify the subcontractor that the...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 10: If a contractor realizes that his bid contains a material error, he shou...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 11: Contractor should be given a more positive past performance evaluation b...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>0.0%</td>
<td>2</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 12: Section 1091 of FASA provides that &quot;past contract performance of the offeror ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 13: Federal Acquisitions Streamlining Act acknowledges that a contractor's past p...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 16: One of the chief complaints lodged by contractors and suppliers is that rever...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>0.0%</td>
<td>4</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 17: The strict and longstanding rules regarding timeliness for the submission of ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 18: The &quot;best value&quot; procurement regulations for the state and local government a...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 20: A responsive bid is one that complies with all material requirements of solic...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 21: A &quot;responsible&quot; bidder is a contractor capable of satisfactorily undertaking ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 22: What must a contractor have to be considered responsible and awarded a contract?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
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</tr>
<tr>
<td>Question 23: In order to find that a bidder is not responsible, what must the public...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 26: To withdraw a bid containing a bid mistake, what must the contractor prove...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 28: Courts CAN NOT grant relief for bid mistakes that are a result of....</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 29:______ is a form of security that guarantees that the contractor will execute...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 30: A______ bidder is a contractor capable of satisfactorily undertaking...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 1: Standard forms of agreement like the AIA Document A201 do NOT specify the limit...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 2: In a case where the A/E's authority and responsibility have been modified by...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 3: During the course of the project, the conduct of the design professional...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 4: During the design development phase, the design professional usually acts as...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>8</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 5: How much control and authority the design professional has over a particular...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 6: Many construction disputes have their origin in real or perceived design prob...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 8: The design professional generally reviews and approves data submitted by...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 11: The design professional has the implied contract obligation to cooperate with...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 12: If the A/E has the actual authority to approve work if they conform to specs...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 14: A means and methods clause may or may not absolve the architect of liability...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 15: Courts are reluctant to recognize that a design professional has the final bi...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 19: Which signature statement(s) are included in the contract document(s)...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
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<tr>
<td>Question 19: What are some of the legal theories under which the A/E can be held dire...</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 21: Who is responsible for deficiencies in shop drawings when the contract provid...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 24: In Design-Bid-Build projects, contractual privity is usually absent between...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 1: Successful project performance depends on the legal &amp; business relationship...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 3: What should contractors consider before deciding whether to enter into a cont...</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 4: Double-breasted contractor gives contractor advantage of being able to operat...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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<tr>
<td>Question 6: Refusal to execute a subcontract agreement following a letter of intent or a ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 8: When standard forms such as ConsensusDocs or the AIA are used, they cannot be...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 9: A collection of uncoordinated provisions from various forms of subcontract...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
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<tr>
<td>Question 11: Contractor must realize that the responsibility of coordinating the subs’ eff...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
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<tr>
<td>Question 16: In the event of improper termination, the subcontractor may still recover as ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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<tr>
<td>Question 17: If one party terminates the other party for convenience, the terminated party...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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<tr>
<td>Question 18: If a general contractor hopes to limit a subcontractor’s claim for delay to t...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 19: The general contractor should be sure to include language in the prime contra...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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<tr>
<td>Question 20: It is generally not desirable for the prime contractor to tie the subcontract...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
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<tr>
<td>Question 1: Change clauses in a construction contract allows a party to execute changes i...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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<tr>
<td>Question 2: The GC should include a provision in the subcontract that the sub should halt...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 3: When a contract clause can have two or more interpretations, it will be const...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
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<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
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<tr>
<td>Question 6: Obtaining a written change order before performing any change order is always...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 8: Most standard forms of construction contracts require the contractor to notify...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 11: Constructive change recognizes that the informal requirement for performance...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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<tr>
<td>Question 13: Delivery of defective plans and specs is breach of implied warranty absolving...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 14: It is the A/E and NOT the owner who has the implied duty, contained in...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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<tr>
<td>Question 16: There are cases where a notice for delay is not absolutely necessary for a co...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 17: In the event of a cardinal change, the contractor can disregard the contract...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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<tr>
<td>Question 19: The impossibility doctrine permits the contractor to walk away from a contract...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>0.0%</td>
<td>2</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 20: Unexpected increase in the cost of construction materials is a risk borne by...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>8</td>
<td>1.0</td>
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<tr>
<td>Question 23: ___________ is a standard clause in contracts that gives the government the...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 25: Which of the following standard contract documents does NOT describe the...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 27: What should a change order correspondence include?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 30: What are the rights of the contractor in event of a cardinal change?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 3: Differing site conditions clauses alleviate some of the risks associated with...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 4: A prudent contractor protects itself against potential differing site...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 5: Even for experienced contractors, the bid contingency for differing...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 6: The purpose of the DSC clause is to take some of the gamble on subsurface...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 7: The purpose of the DSC clause is to take some of the gamble on subsurface...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
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<tr>
<td>Question 7: Most construction industry standard form contracts between owners and co...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 8: Type II charged conditions are conditions differing materially from those ind...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 9: Emphasis in Type I changed condition situation is on those conditions that ar...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 10: A Type II differing site condition may result not only from a variance in the...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 12: Consensus DOCS requires that the contractor to stops work and give writ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>7</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 16: DSC clause allows a contractor to be reimbursed for its reasonable addi...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 17: Through a DSC clause, the owner assumes a portion of the risk of such conditi...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 19: Misrepresentation by owner may allow contractor to recover extra costs incur...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>7</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 23: If the contract does not have a differing site condition clause, under which ...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 24: What are the clauses that attempt to minimize or reduce claims for differ...</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>1</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 25: What doctrine relates to implied warranty?</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 27: Examples of differing site conditions:</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 28: All standard differing site conditions clauses cover similar situations</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 29: Under a Type II situation, it is possible to recover even where the contract ...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 30: Ideally, notice requirement in a changed conditions clause alerts the owner t...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>2</td>
<td>1.0</td>
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</tr>
<tr>
<td>Question 2: Traditionally, obligations associated with project scheduling and performance...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>Question 3: The specific completion date becomes a material part of the contract when the...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
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<td>Discrimination</td>
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<tr>
<td>Question 4: A &quot;time is of the essence&quot; clause makes time a material requirement of a cont...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td></td>
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<tr>
<td>Question 5: The absence of a clause/contract in the contract specifying that...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td></td>
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<tr>
<td>Question 6: The contractor generally is entitled to extra time and monetary compensation...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td></td>
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<tr>
<td>Question 7: Where the contract specifies the date for work commencement (notice to proceed...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td></td>
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<tr>
<td>Question 9: Critical portions of the project consist of activities for which the schedule...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 11: If effects of concurrent delays cannot accurately be segregated and quantified...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td></td>
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<tr>
<td>Question 14: Delays that result from labor shortages unrelated to labor disputes or delays...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 16: CPM analysis is often used to assess or present a delay claim...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td></td>
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<tr>
<td>Question 17: Good scheduling analysis and project documentation are critical to successful...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 19: An acceleration occurs when the owner requires the contractor to complete work...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td></td>
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<tr>
<td>Question 21: _____ delays are delays for which the contractor is responsible...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td></td>
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<td>Question 22: _______ usually provides that the owner will not be liable for mo...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 27: Which of the following acts or failures to act result in excusable comp...</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 29: About schedules:</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 1: Prudent participants in the construction process strive to identify and manage...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 2: Claims are a natural outgrowth of a complex and highly competitive proc...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 4: Development of a checklist approach to qualifying the potential participants...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question</td>
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<td>Question 8: Parties must grapple with tough issues raised by their conflicting interests...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<td>1.0</td>
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<tr>
<td>Question 9: Establishing the contract framework for the project is a threshold decision...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 10: A prudent and realistic contractor designs and uses systems and procedures to...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
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<tr>
<td>Question 11: Prudent estimating and bidding can avoid a host of performance problems and c...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 12: BIM affects planning, design, and construction of a project from the outset, t...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
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<tr>
<td>Question 13: One advantage of using BIM is that it does not give rise to intellectual...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 14: A claimant can only recover the amount of damages that it can prove with...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 15: A properly maintained, updated and enforced schedule can help reduce risks an...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 17: If a party reasonably anticipates that a construction claim or dispute will e...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 19: Much construction estimating is now done with the help of powerful computer e...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 20: Project documentation creates an accessible history of the project that helps...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<td>Question 21: Standard procedures relating to documentation should address the creation, ma...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<td>Question 22: What is some of the information covered in a daily log?</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 23: It is essential to risk management and dispute avoidance to qualify...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>4</td>
<td>1.0</td>
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<tr>
<td>Question 24: What issues would be investigated when qualifying the site and locale?</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 25: Contract provisions critical for anticipating, avoiding, and resolving claims...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 1: The inability to prove damage with a reasonable degree of certainty may prove...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 2: The early analysis of damages CANNOT help determine whether a claim really ex...</td>
<td>True/False (RB)</td>
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<td>Question 5: Many courts limit tort damages to cases involving either</td>
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<td>Cannot Calculate</td>
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<td>Question 6: General damages result from direct, natural, and immediate</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 7: Consequential damages are awarded where there is evidence</td>
<td>True/False (RB)</td>
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<td>Question 8: The claimant assumes a greater burden of proof when seeking</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 9: Consequential damages are awarded where there is evidence of</td>
<td>True/False (RB)</td>
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<td>Question 10: Punitive damages are not recoverable in a breach of contract</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 11: To prosecute a claim successfully, a claimant must establish</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 12: The availability of proper cost accounting techniques when</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 13: The total cost method for pricing claims is preferred by</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<td>Question 14: The difficulties of establishing the prerequisites for use of</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 15: The quantum merit doctrine measures damages under an implied</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 16: The owner requiring a contractor to perform an additional</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 17: A contractor may be damaged if there is a breach of contract</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 18: A contractor generally is entitled to recover liquidated</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 21: Liquidated damages are intended to represent a fair</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<td>Question 23: An owner may waive its right to recover liquidated damages</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<td>Question 24: When the GC abandons the work before completion, the</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<td>Question 27: What cost items are included as field office overhead?</td>
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<td>Question</td>
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<tr>
<td>Question 2: A claim must first be recognized before there can be any preparation or prose...</td>
<td>Multiple Answer (RB)</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 5: Because delays are a frequent subject in construction claims, scheduling anal...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>3</td>
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<tr>
<td>Question 7: Demonstrative evidence can clarify the oral testimony or documentar...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 8: Contemporaneous records engender integrity and trustworthiness essential to p...</td>
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<td>Cannot Calculate</td>
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<tr>
<td>Question 9: Only complex projects need documentation systems that ensure accurate and com...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 11: Pricing the claim and supporting such calculations is every bit as important...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
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<tr>
<td>Question 12: There are certain cases where the character or capacity of the oppo...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 14: If is far easier and less expensive to resolve problems in the courtroom, tha...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<tr>
<td>Question 16: Mediation is nonbinding and relies on the parties' desire to end the dispute...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>6</td>
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<tr>
<td>Question 17: State and local public project contracts may require that a dispute review bo...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 19: The availability of arbitration must be planned and provided for at the outset...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 20: To establish an agreement to arbitrate, there needs to be a clear indication...</td>
<td>True/False (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 21: About arbitration:</td>
<td>Multiple Answer (RB)</td>
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<td>Question 27: What are some examples of demonstrative evidence?</td>
<td>Multiple Answer (RB)</td>
<td>Cannot Calculate</td>
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<td>Question 28: _________engender integrity and trustworthiness essential to persuad...</td>
<td>Multiple Choice (RB)</td>
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<td>Question 29: In the parties engage in an abbreviated trial before a judge and...</td>
<td>Multiple Choice (RB)</td>
<td>100.0%</td>
<td>5</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
<td></td>
</tr>
<tr>
<td>Question 30: _______ is the most widely used organization in the US for administering...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>100.0%</td>
<td>31</td>
<td>1.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Question 7: _______ is your power not only to reach agreement, but to obtain an ag...</td>
<td>Multiple Choice (RB)</td>
<td>Cannot Calculate</td>
<td>50.0%</td>
<td>2</td>
<td>0.5</td>
<td>0.71</td>
<td>0.5</td>
</tr>
<tr>
<td>Question 15: If a contractor knows that they are involved in very dangerous activity and h...</td>
<td>True/False (RB)</td>
<td>-1.0</td>
<td>50.0%</td>
<td>2</td>
<td>0.5</td>
<td>0.71</td>
<td>0.5</td>
</tr>
<tr>
<td>Question 10: The EPC contractor may be a constructor that contracts with a major equipment...</td>
<td>True/False (RB)</td>
<td>-1.0</td>
<td>50.0%</td>
<td>2</td>
<td>0.5</td>
<td>0.71</td>
<td>0.5</td>
</tr>
<tr>
<td>Question 12: A constructive change arising in connection with defective plans and specs ha...</td>
<td>True/False (RB)</td>
<td>-1.0</td>
<td>50.0%</td>
<td>2</td>
<td>0.5</td>
<td>0.71</td>
<td>0.5</td>
</tr>
<tr>
<td>Question 18: Similar to an arbitration decision, DRB decision is subject to full appeal.</td>
<td>True/False (RB)</td>
<td>-0.99</td>
<td>25.0%</td>
<td>4</td>
<td>0.26</td>
<td>0.5</td>
<td>0.26</td>
</tr>
<tr>
<td>Question 10: Courts can and do impose liability on A/E for approving submittals that dev...</td>
<td>True/False (RB)</td>
<td>-0.98</td>
<td>66.67%</td>
<td>3</td>
<td>0.67</td>
<td>0.58</td>
<td>0.34</td>
</tr>
<tr>
<td>Question 28: Which of the following is a category of constructive changes?</td>
<td>Multiple Answer (RB)</td>
<td>-0.96</td>
<td>66.67%</td>
<td>3</td>
<td>0.67</td>
<td>0.58</td>
<td>0.34</td>
</tr>
<tr>
<td>Question 27: About multi-prime contracting</td>
<td>Multiple Answer (RB)</td>
<td>-0.89</td>
<td>83.34%</td>
<td>4</td>
<td>0.84</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>Question 26: Which of the following are examples of acts or failures to act that resu...</td>
<td>Multiple Answer (RB)</td>
<td>-0.87</td>
<td>75.0%</td>
<td>3</td>
<td>0.75</td>
<td>0.25</td>
<td>0.15</td>
</tr>
<tr>
<td>Question 16: In 1998, Ohio enacted a statute that declares exculpatory clauses unenforceab...</td>
<td>True/False (RB)</td>
<td>-0.83</td>
<td>80.0%</td>
<td>5</td>
<td>0.81</td>
<td>0.45</td>
<td>0.21</td>
</tr>
<tr>
<td>Question 26: When considering a responsive bidder, which of the following is a minor irreg...</td>
<td>Multiple Choice (RB)</td>
<td>-0.75</td>
<td>50.0%</td>
<td>4</td>
<td>0.5</td>
<td>0.58</td>
<td>0.29</td>
</tr>
<tr>
<td>Question 13: Some owners include clauses in the contract that purport to place all possi...</td>
<td>True/False (RB)</td>
<td>-0.71</td>
<td>50.0%</td>
<td>4</td>
<td>0.5</td>
<td>0.58</td>
<td>0.29</td>
</tr>
<tr>
<td>Question 24: For a bid to be considered non-responsive there must be a material deviation ...</td>
<td>Multiple Answer (RB)</td>
<td>-0.61</td>
<td>88.89%</td>
<td>3</td>
<td>0.89</td>
<td>0.2</td>
<td>0.12</td>
</tr>
<tr>
<td>Question 24: Exculpatory clauses included by some owners in their contracts invite b...</td>
<td>True/False (RB)</td>
<td>-0.47</td>
<td>66.67%</td>
<td>3</td>
<td>0.67</td>
<td>0.58</td>
<td>0.34</td>
</tr>
<tr>
<td>Question 26: To recover under a change clause, what must a contractor consider?</td>
<td>Multiple Answer (RB)</td>
<td>-0.48</td>
<td>95.0%</td>
<td>5</td>
<td>0.96</td>
<td>0.12</td>
<td>0.08</td>
</tr>
<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Question 25: When is a formal notice from the contractor informing the owner of its intent?</td>
<td>Multiple Answer (RB)</td>
<td>-0.42</td>
<td>75.0%</td>
<td>4</td>
<td>0.75</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 5: A prime contractor that has relied on subcontractor's telephone bid may be en...</td>
<td>True/False (RB)</td>
<td>-0.41</td>
<td>66.07%</td>
<td>3</td>
<td>0.67</td>
<td>0.58</td>
<td>0.34</td>
</tr>
<tr>
<td>Question 18: Courts typically will not consider initial referral of a claim to the A/E to ...</td>
<td>True/False (RB)</td>
<td>-0.39</td>
<td>80.0%</td>
<td>5</td>
<td>0.81</td>
<td>0.45</td>
<td>0.21</td>
</tr>
<tr>
<td>Question 12: Engineer-procure-construct delivery system is common for residential and inclu...</td>
<td>True/False (RB)</td>
<td>-0.37</td>
<td>20.0%</td>
<td>5</td>
<td>0.21</td>
<td>0.45</td>
<td>0.21</td>
</tr>
<tr>
<td>Question 5: Normally, the agency construction manager is not at risk for either the perfor...</td>
<td>True/False (RB)</td>
<td>-0.35</td>
<td>86.67%</td>
<td>3</td>
<td>0.67</td>
<td>0.58</td>
<td>0.34</td>
</tr>
<tr>
<td>Question 24: Under which legal theory can a contractor performing extra works at the direc...</td>
<td>Multiple Choice (RB)</td>
<td>-0.28</td>
<td>75.0%</td>
<td>8</td>
<td>0.75</td>
<td>0.47</td>
<td>0.17</td>
</tr>
<tr>
<td>Question 7: A payment bond helps assure the owner that labor and materials will be paid for.</td>
<td>True/False (RB)</td>
<td>-0.24</td>
<td>75.0%</td>
<td>4</td>
<td>0.75</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 3: The law of contract damages is punitive in nature and is designed to reimburse...</td>
<td>True/False (RB)</td>
<td>-0.15</td>
<td>50.0%</td>
<td>4</td>
<td>0.5</td>
<td>0.58</td>
<td>0.29</td>
</tr>
<tr>
<td>Question 3: Which of the following are examples of breach of contract?</td>
<td>Multiple Answer (RB)</td>
<td>-0.14</td>
<td>95.0%</td>
<td>5</td>
<td>0.95</td>
<td>0.12</td>
<td>0.06</td>
</tr>
<tr>
<td>Question 3: When an offer is made it should NOT be accepted without qualification...</td>
<td>True/False (RB)</td>
<td>-0.14</td>
<td>25.0%</td>
<td>4</td>
<td>0.25</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 7: The responsibility that accompanies the authority to interpret the plans and ...</td>
<td>True/False (RB)</td>
<td>-0.11</td>
<td>66.67%</td>
<td>3</td>
<td>0.67</td>
<td>0.58</td>
<td>0.34</td>
</tr>
<tr>
<td>Question 7: Subcontract refers to contracts between parties at any level including t...</td>
<td>True/False (RB)</td>
<td>-0.11</td>
<td>62.5%</td>
<td>8</td>
<td>0.63</td>
<td>0.52</td>
<td>0.19</td>
</tr>
<tr>
<td>Question 16: Negligence may be distinguished from intentional torts by the fact that no sp...</td>
<td>True/False (RB)</td>
<td>-0.06</td>
<td>75.0%</td>
<td>4</td>
<td>0.75</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 8: A meeting of minds is normally expressed by the parties to a contract in the ...</td>
<td>True/False (RB)</td>
<td>-0.06</td>
<td>75.0%</td>
<td>4</td>
<td>0.75</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 29: What are some of the advantages of the DDB delivery system?</td>
<td>Multiple Answer (RB)</td>
<td>-0.05</td>
<td>91.67%</td>
<td>3</td>
<td>0.62</td>
<td>0.15</td>
<td>0.09</td>
</tr>
<tr>
<td>Question 4: Negotiators who are accommodating gain satisfaction from solving others'...</td>
<td>True/False (RB)</td>
<td>-0.04</td>
<td>93.85%</td>
<td>31</td>
<td>0.64</td>
<td>0.25</td>
<td>0.06</td>
</tr>
<tr>
<td>Question 24: What are the potential methods of compensation in the traditional DDB?</td>
<td>Multiple Answer (RB)</td>
<td>-0.03</td>
<td>67.5%</td>
<td>6</td>
<td>0.88</td>
<td>0.21</td>
<td>0.09</td>
</tr>
<tr>
<td></td>
<td>True/False (RB)</td>
<td>-0.01</td>
<td>40.0%</td>
<td>5</td>
<td>0.41</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
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</tr>
<tr>
<td>Question 19: In the qualification stage of a negotiated &quot;best-value&quot; selection process, the...</td>
<td>True/False (RB)</td>
<td>-0.01</td>
<td>50.0%</td>
<td>4</td>
<td>0.5</td>
<td>0.58</td>
<td>0.29</td>
</tr>
<tr>
<td>Question 11: The EJCDC requires that the notice of differing conditions be given to the ow...</td>
<td>True/False (RB)</td>
<td>0.08</td>
<td>87.0%</td>
<td>8</td>
<td>0.88</td>
<td>0.30</td>
<td>0.13</td>
</tr>
<tr>
<td>Question 16: With the CM delivery system, you cannot establish project budget at an early...</td>
<td>True/False (RB)</td>
<td>0.06</td>
<td>88.88%</td>
<td>9</td>
<td>0.89</td>
<td>0.34</td>
<td>0.12</td>
</tr>
<tr>
<td>Question 21: Doctrine of impracticability requires impracticability</td>
<td>Multiple Choice (RB)</td>
<td>0.15</td>
<td>75.0%</td>
<td>4</td>
<td>0.75</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 25: Through which of the following can evidence in a trial be presented?</td>
<td>Multiple Answer (RB)</td>
<td>0.06</td>
<td>88.88%</td>
<td>4</td>
<td>0.94</td>
<td>0.13</td>
<td>0.07</td>
</tr>
<tr>
<td>Question 8: is the stage in the progress of the work when the work of a design...</td>
<td>Multiple Choice (RB)</td>
<td>0.08</td>
<td>65.72%</td>
<td>7</td>
<td>0.66</td>
<td>0.38</td>
<td>0.15</td>
</tr>
<tr>
<td>Question 7: In implied in law contracts, an obligation is created by law to avoid unjust...</td>
<td>True/False (RB)</td>
<td>0.15</td>
<td>80.0%</td>
<td>5</td>
<td>0.81</td>
<td>0.45</td>
<td>0.21</td>
</tr>
<tr>
<td>Question 14: In a joint arrangement, each party is individually liable for whatever debt u...</td>
<td>True/False (RB)</td>
<td>0.18</td>
<td>65.01%</td>
<td>5</td>
<td>0.61</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 9: Following United States v. Spearin, the contractor CAN be held liable for...</td>
<td>True/False (RB)</td>
<td>0.18</td>
<td>75.0%</td>
<td>4</td>
<td>0.75</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 10: A consideration can be a promise not to do something – like a promise not to...</td>
<td>True/False (RB)</td>
<td>0.18</td>
<td>60.01%</td>
<td>5</td>
<td>0.61</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 18: Electronic communications using computer technology supplements the tradition...</td>
<td>True/False (RB)</td>
<td>0.18</td>
<td>80.0%</td>
<td>5</td>
<td>0.81</td>
<td>0.45</td>
<td>0.21</td>
</tr>
<tr>
<td>Question 28: is usually more accurate, reliable, and persuasive way of presen...</td>
<td>Multiple Choice (RB)</td>
<td>0.18</td>
<td>60.0%</td>
<td>4</td>
<td>0.61</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 25: When is a design professional NOT held liable?</td>
<td>Multiple Choice (RB)</td>
<td>0.18</td>
<td>65.01%</td>
<td>4</td>
<td>0.75</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 15: There is a belief that DB delivery system will inevitably degrade the ul...</td>
<td>True/False (RB)</td>
<td>0.18</td>
<td>60.01%</td>
<td>5</td>
<td>0.61</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 22: Which of the following is NOT true of the fair use doctrine?</td>
<td>Multiple Choice (RB)</td>
<td>0.18</td>
<td>60.01%</td>
<td>5</td>
<td>0.61</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 8: What does BATNA stand for</td>
<td>Multiple Choice (RB)</td>
<td>0.19</td>
<td>95.78%</td>
<td>31</td>
<td>0.97</td>
<td>0.16</td>
<td>0.04</td>
</tr>
<tr>
<td>Question 4: To make a determination if the breach is a material breach of contract, what...</td>
<td>Multiple Answer (RB)</td>
<td>0.2</td>
<td>85.75%</td>
<td>4</td>
<td>0.88</td>
<td>0.15</td>
<td>0.08</td>
</tr>
<tr>
<td>Question</td>
<td>Question Type</td>
<td>Discrimination</td>
<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Err</td>
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</tr>
<tr>
<td>Question 22: Where the GC has been granted a time extension by the owner, liquidated damages...</td>
<td>True/False (RB)</td>
<td>0.2</td>
<td>71.43%</td>
<td>7</td>
<td>0.72</td>
<td>0.49</td>
<td>0.19</td>
</tr>
<tr>
<td>Question 15: If the contract does not contain a DRO clause, the contractor can not be...</td>
<td>True/False (RB)</td>
<td>0.22</td>
<td>40.0%</td>
<td>5</td>
<td>0.41</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 26: Which of the following delays are recoverable under a no-damages-for-del...</td>
<td>Multiple Answer (RB)</td>
<td>0.22</td>
<td>83.34%</td>
<td>3</td>
<td>0.84</td>
<td>0.15</td>
<td>0.09</td>
</tr>
<tr>
<td>Question 6: A payment bond means that if the contractor defaults and fails to complete, t...</td>
<td>True/False (RB)</td>
<td>0.23</td>
<td>66.67%</td>
<td>3</td>
<td>0.67</td>
<td>0.58</td>
<td>0.34</td>
</tr>
<tr>
<td>Question 1: The key to success in negotiation is information.</td>
<td>True/False (RB)</td>
<td>0.23</td>
<td>96.78%</td>
<td>31</td>
<td>0.97</td>
<td>0.18</td>
<td>0.04</td>
</tr>
<tr>
<td>Question 6: The primary purpose of the bid bond is to guarantee the contractor that...</td>
<td>True/False (RB)</td>
<td>0.26</td>
<td>50.0%</td>
<td>4</td>
<td>0.5</td>
<td>0.58</td>
<td>0.29</td>
</tr>
<tr>
<td>Question 13: A/E is not liable for incorrect or negligent inspections that result in...</td>
<td>True/False (RB)</td>
<td>0.26</td>
<td>42.66%</td>
<td>7</td>
<td>0.43</td>
<td>0.54</td>
<td>0.21</td>
</tr>
<tr>
<td>Question 2: A compromising negotiator</td>
<td>Multiple Choice (RB)</td>
<td>0.26</td>
<td>54.84%</td>
<td>31</td>
<td>0.65</td>
<td>0.61</td>
<td>0.1</td>
</tr>
<tr>
<td>Question 8: EPC is a project delivery method where a single entity executes both engineer...</td>
<td>True/False (RB)</td>
<td>0.27</td>
<td>37.5%</td>
<td>8</td>
<td>0.38</td>
<td>0.62</td>
<td>0.1</td>
</tr>
<tr>
<td>Question 1: Over the last two decades, contracts have become less sophisticated, inc...</td>
<td>True/False (RB)</td>
<td>0.27</td>
<td>87.5%</td>
<td>8</td>
<td>0.88</td>
<td>0.36</td>
<td>0.13</td>
</tr>
<tr>
<td>Question 13: A tort action seeks to recover compensatory damages from the tort-feasor</td>
<td>True/False (RB)</td>
<td>0.28</td>
<td>85.72%</td>
<td>7</td>
<td>0.86</td>
<td>0.38</td>
<td>0.15</td>
</tr>
<tr>
<td>Question 3: In CM at risk, the owner contracts directly with several specialty or trade co...</td>
<td>True/False (RB)</td>
<td>0.28</td>
<td>42.66%</td>
<td>7</td>
<td>0.43</td>
<td>0.54</td>
<td>0.21</td>
</tr>
<tr>
<td>Question 22: In which standard contract does the change clause require that the contractor...</td>
<td>Multiple Answer (RB)</td>
<td>0.31</td>
<td>93.34%</td>
<td>5</td>
<td>0.94</td>
<td>0.15</td>
<td>0.07</td>
</tr>
<tr>
<td>Question 18: What does the lack of due diligence or care refer to?</td>
<td>Multiple Choice (RB)</td>
<td>0.34</td>
<td>75.0%</td>
<td>4</td>
<td>0.76</td>
<td>0.5</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 2: The lowest subcontractor always turns out to be the least expensive</td>
<td>True/False (RB)</td>
<td>0.35</td>
<td>83.34%</td>
<td>6</td>
<td>0.84</td>
<td>0.41</td>
<td>0.17</td>
</tr>
<tr>
<td>Question 12: A tort is a crime prosecuted by public officials</td>
<td>True/False (RB)</td>
<td>0.37</td>
<td>40.0%</td>
<td>5</td>
<td>0.41</td>
<td>0.55</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 15: In the absence of express termination, there are implied rights to terminate...</td>
<td>True/False (RB)</td>
<td>0.37</td>
<td>86.72%</td>
<td>7</td>
<td>0.86</td>
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<td>0.15</td>
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<td>Question 15: Comprehensive and careful claim preparation leads to a lengthy litig...</td>
<td>True/False (RB)</td>
<td>0.38</td>
<td>77.78%</td>
<td>9</td>
<td>0.76</td>
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<td>Std Error</td>
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<td>Question 6: ___ is an interactive communication process that may take place whe...</td>
<td>Multiple Choice (RB)</td>
<td>0.38</td>
<td>96.76%</td>
<td>31</td>
<td>0.97</td>
<td>0.18</td>
<td>0.04</td>
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<tr>
<td>Question 17: The deliberate or negligent misuse of A/E’s powers as arbitrator may excuse a...</td>
<td>True/False (RB)</td>
<td>0.4</td>
<td>83.34%</td>
<td>6</td>
<td>0.84</td>
<td>0.41</td>
<td>0.17</td>
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<tr>
<td>Question 2: In negotiations, behind the interests of each party are underlying pos...</td>
<td>True/False (RB)</td>
<td>0.4</td>
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<td>0.39</td>
<td>0.5</td>
<td>0.09</td>
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<td>Question 10: Which of the following is not a bargaining style?</td>
<td>Multiple Choice (RB)</td>
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<td>83.68%</td>
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<td>0.84</td>
<td>0.38</td>
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<td>Question 12: “Pay-when-paid” and “pay-if-paid” clauses place the risk of nonpayment for th...</td>
<td>True/False (RB)</td>
<td>0.43</td>
<td>60.0%</td>
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<td>0.81</td>
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<td>Question 24: Through what avenues can discovery for a case in litigation be achieved?</td>
<td>Multiple Answer (RB)</td>
<td>0.43</td>
<td>96.67%</td>
<td>6</td>
<td>0.07</td>
<td>0.06</td>
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<td>Question 24: What are some essential elements of a constructive acceleration claim?</td>
<td>Multiple Answer (RB)</td>
<td>0.44</td>
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<td>0.84</td>
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<td>Question 28: What cost items are included as home office overhead?</td>
<td>Multiple Answer (RB)</td>
<td>0.44</td>
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<td>0.89</td>
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<td>Question 13: Delays resulting from all strikes and labor disturbances generally constitute...</td>
<td>True/False (RB)</td>
<td>0.46</td>
<td>28.58%</td>
<td>7</td>
<td>0.29</td>
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<td>Multiple Answer (RB)</td>
<td>0.47</td>
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<td>3</td>
<td>0.78</td>
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<td>Question 20: An owner can avoid responsibility under the implied warranty theory by inserting...</td>
<td>True/False (RB)</td>
<td>0.49</td>
<td>40.0%</td>
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<td>0.41</td>
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<tr>
<td>Question 3: Risk can only be eliminated, not mitigated...</td>
<td>True/False (RB)</td>
<td>0.49</td>
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<td>4</td>
<td>0.75</td>
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<td>Question 13: When two or more partners obtain a loan for which they are severally liable, ...</td>
<td>True/False (RB)</td>
<td>0.5</td>
<td>22.23%</td>
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<td>0.23</td>
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<tr>
<td>Question 10: Failure to give a written notice CANNOT prevent a contractor from recove...</td>
<td>True/False (RB)</td>
<td>0.51</td>
<td>77.78%</td>
<td>9</td>
<td>0.78</td>
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<tr>
<td>Question 4: No change to an o...er should be made in the acceptance, and what is o...ered sho...</td>
<td>True/False (RB)</td>
<td>0.52</td>
<td>85.72%</td>
<td>7</td>
<td>0.86</td>
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<td>71.43%</td>
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<td>0.72</td>
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<td>0.61</td>
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<td>Question 3: Negative leverage is one based on norms and standards</td>
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<td>0.55</td>
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<td>0.68</td>
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<td>Question 25: Which of the following are alternative contracting methods?</td>
<td>Multiple Answer (RB)</td>
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<td>0.94</td>
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<td>Question 23: ___________ occurs when the owner fails to grant the contractor time...</td>
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<td>66.67%</td>
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<td>0.67</td>
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<td>Question 20: An expense claim arises when productivity is impacted by events for which...</td>
<td>True/False (RB)</td>
<td>0.68</td>
<td>33.34%</td>
<td>3</td>
<td>0.34</td>
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<td>Question 22: If the contract is final and complete, parol evidence is still admissible...</td>
<td>True/False (RB)</td>
<td>0.63</td>
<td>91.67%</td>
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<td>0.92</td>
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<td>Question 21: The most overlooked step in the negotiation process is &quot;preparing one's strategy...&quot;</td>
<td>True/False (RB)</td>
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<td>Question 27: It is extremely difficult to reform a bid after award of a contract</td>
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<td>0.65</td>
<td>83.34%</td>
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<td>Question 4: Typically, the architect reserves the rights to order changes requiring...</td>
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<td>Question 18: A good lawsuit beats a poor settlement</td>
<td>True/False (RB)</td>
<td>0.74</td>
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<td>Question 15: Most federal, state, and municipal contracts will award a contract based...</td>
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<td>0.75</td>
<td>66.67%</td>
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<td>Question 3: In complex construction projects, disputes are the exception, not the rule</td>
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<td>Question 9: ConcensusDOCS 200 requires written notice to the owner within 21 days of...</td>
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<td>Difficulty</td>
<td>Graded Attempts</td>
<td>Average Score</td>
<td>Std Dev</td>
<td>Std Error</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>--------------------</td>
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<td>-----------</td>
</tr>
<tr>
<td>Question 17: What must one prove in order to successfully bring a claim</td>
<td>Multiple Answer</td>
<td>1.0</td>
<td>87.5%</td>
<td>2</td>
<td>0.88</td>
<td>0.18</td>
<td>0.13</td>
</tr>
<tr>
<td>Question 17: The special conditions of the contract outlines the rules</td>
<td>True/False</td>
<td>1.0</td>
<td>50.0%</td>
<td>2</td>
<td>0.5</td>
<td>0.71</td>
<td>0.5</td>
</tr>
<tr>
<td>Question 4: The extent of liability under a bid bond is usually the</td>
<td>True/False</td>
<td>1.0</td>
<td>50.0%</td>
<td>2</td>
<td>0.5</td>
<td>0.71</td>
<td>0.5</td>
</tr>
<tr>
<td>Question 21: ______ theory stems from the case that is the basis of the</td>
<td>Multiple Choice</td>
<td>1.0</td>
<td>50.0%</td>
<td>2</td>
<td>0.5</td>
<td>0.71</td>
<td>0.5</td>
</tr>
<tr>
<td>Question 12: Acts of god entitle the contractor to an extension of both</td>
<td>True/False</td>
<td>1.0</td>
<td>33.34%</td>
<td>3</td>
<td>0.34</td>
<td>0.58</td>
<td>0.34</td>
</tr>
<tr>
<td>Question 16: Effectively dealing with construction disputes begins with</td>
<td>True/False</td>
<td>1.0</td>
<td>75.0%</td>
<td>4</td>
<td>0.75</td>
<td>0.65</td>
<td>0.25</td>
</tr>
<tr>
<td>Question 25: Many public construction contracts exclude the claims for</td>
<td>True/False</td>
<td>1.0</td>
<td>50.0%</td>
<td>2</td>
<td>0.5</td>
<td>0.71</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Legend

- Review recommended
- Questions might have changed after deployment
- Not all submissions have been graded

(QS) Question Set
(RB) Random Block
Improvements and Adjustments to the Assessment

SLO 17: "Understand the legal implications of contract, common, and regulatory law to manage a construction project."

Course: CMGT 42105 - Construction Contracts and Law

Assessment Date: Spring 2017

During our assessment, we went through every question in the final exam. This comprehensive exam was designed to gauge the student’s understanding of contract, common, and regulatory law to manage a construction project (SLO 17). The exam comprised 50 questions randomly pulled from a pool of over 300 questions.

While 29 out of 31 students scored better than 70%, we still decided to review the test questions with the aim of improving the exam.

We focused on the questions with an average score of 50% or less: questions missed by at least 50% of the students who attempted them. We read the questions and proposed changes to the questions that needed modification. The changes included rewriting confusing questions and deleting poorly written (bad) questions.

The assessment also shed light on areas where the students struggled. We suggested review on material delivery (lectures, reading assignments, videos, case reviews, and discussions). We also suggested in-class emphasis on the areas where the students did not perform well.