ENERGY AND POWER – COURSE 1

Test Code: 9022
Version: 01

Specific Competencies and Skills Tested in this Assessment:

Information about the AC course standards can be found in the front of the AC course teacher guide.

CTE
CTE.ST.2
CTE.ST.5
CTE.ET.1
CTE.ET.5
CTE.SM.1
CTE.SM.2
CTE.SM.4

Literacy
L.RST.11-12.1
L.RST.11-12.10
L.WHST.11-12.4
L.WHST.11-12.9

Math
A.CED.1
A.CED.4
N.Q.1
A.REI.B.3

Science
S.ETS1-2
S.PS2-5
Energy and Power – Course 1 (continued)

Written Assessment:

Administration Time: unlimited
Number of Questions: 48

Areas covered:

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<th>Area</th>
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<td>31%</td>
<td>CTE</td>
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<tr>
<td>13%</td>
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<tr>
<td>13%</td>
<td>Math</td>
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<tr>
<td>43%</td>
<td>Science</td>
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Sample Questions:

Sensors are used to:
A. Add resistance to electrical circuits
B. Tell time of measurement
C. Collect physical data and convert it to electrical signals
D. Prove that data was collected

Ohm’s Law states that current is:
A. Directly related to potential and indirectly related to resistance
B. Directly related to resistance and indirectly related to potential
C. Directly related to both potential and resistance
D. Indirectly related to both potential and resistance

What are the energy conversions in a hydroelectric system?
A. Electrical to gravitational to mechanical
B. Gravitational to mechanical to electrical
C. Electrical to mechanical to gravitational
D. Mechanical to gravitational to electrical

The online testing system provides a built-in, five-function calculator. However, a scientific calculator is recommended for this assessment.