SREB

Clean Energy Technology - Course 1

Code: 9040
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
6B or ET-1 CTE
6E or ET-1 CTE
14G or ET-4 CTE
11e or SM-2 CTE
16B or SM-2 CTE
16C or SM-2 CTE
17G or SM-2 CTE
12C or SM-4 CTE
10C or ST-2 CTE

Literacy
RST9-10.1 Literacy
RST9-10.4 Literacy
RST.9-10.10 Literacy
RST.9-10.1 Literacy
RST.9-10.4 Literacy
RST.9-10.7 Literacy
RST.9-10.3 Literacy
Clean Energy Technology – Course 1 (continued)

**Math**
A-CED(1) Math
A-CED.2 Math
A-REI.1 Math
F-TF5 Math
G-MG 2 Math
N-Q1 Math

**Science**
HS-ETS1-2 Science
HS-ETS1-2. L2 Science
HS-PS2-5 Science
HS-PS3-3 Science
Written Assessment:

Administration Time: unlimited
Number of Questions: 42

Areas covered:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Subject</th>
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<tbody>
<tr>
<td>23%</td>
<td>CTE</td>
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<tr>
<td>29%</td>
<td>Literacy</td>
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<tr>
<td>19%</td>
<td>Math</td>
</tr>
<tr>
<td>29%</td>
<td>Science</td>
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Sample Questions:

A wind turbine converts the kinetic energy in wind into:
A. Potential energy
B. Pneumatic energy
C. Electrical energy
D. Rotational or mechanical energy

Calculate the swept area of a wind turbine which has a blade length of 52 meters.
A. 163 m²
B. 327 m²
C. 841 m²
D. 33910 m²

What constitutes the main substance of a solar cell?
A. Copper
B. Carbon
C. Silicon
D. Oxygen