ENERGY AND POWER – COURSE 4

Test Code: 9026
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
ET-1 CTE
ET-2 CTE
ET-4 CTE
SM-2 CTE

Literacy
RST11-12.1 Literacy
RST11-12.2 Literacy
RST 11-12.4 Literacy
RST11.12.10 Literacy

Math
VM.1 Math
VM.3 Math
CED.4 Math
REI.3 Math
CN.4 Math

Science
HS-ETS1-3 Science
HS-ETS1-2 Science
**Written Assessment:**

Administration Time: unlimited  
Number of Questions: 48

**Areas covered:**

- 44% CTE  
- 8% Literacy  
- 21% Math  
- 27% Science

**Sample Questions:**

What type of coal is known to have the highest carbon and heat content?  
A. Bituminous  
B. Sub-bituminous  
C. Anthracite  
D. Lignite

The modulus of elasticity of a material is a mathematical description of the:  
A. Ability to resist being deformed  
B. Strength of the shape  
C. Toughness of the material  
D. Brittle nature of the material

Which is NOT a benefit of three phase electricity?  
A. Three phase electricity requires fewer conductor materials  
B. Three phase electric motors are more efficient  
C. Three phase electric motors have a low power to weight ratio  
D. Three phase electricity provides almost constant power