

SREB

**Energy and Power -
Course 4**

Code: 9026

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

Energy and Power – Course 4 (continued)

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