

SREB

Energy and Power - Course 2

Code: 9023

ENERGY AND POWER – COURSE 2

Test Code: 9023

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

Literacy

L.RST.11-12.1
L.RST.11-12.2
L.RST.11-12.4
L.RST.11-12.9
L.RST.11-12.10
L.WHST.11-12.10

Math

A.CED.4
A.REI.B.3
G.SRT.8
A.CED.1
A.CED.2
N.Q.1

Energy and Power – Course 2 (continued)

Science

S.PS3-1

S.PS3-5

Written Assessment:

Administration Time: unlimited

Number of Questions: 56

Areas covered:

55%	CTE
11%	Literacy
21%	Math
13%	Science

Sample Questions:

The Watt is the unit of power that represents:

- A. Size of a transformer
- B. 1 Joule per minute
- C. 10 Joules per second
- D. The ability to do work

A circuit breaker is a device that

- A. Corrects power factors
- B. Neutralizes the effects of transients
- C. Corrects waveforms
- D. Interrupts a current

Why is the voltage in main transmission lines so high?

- A. Line loss is a function of insulation on the wire
- B. Line loss is greatly decreased by increasing the voltage
- C. Line loss is caused by heat generated by voltage
- D. The higher the current the lower the line loss