INTEGRATED PRODUCTION TECHNOLOGIES – COURSE 1

Test Code: 9021
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.AMS.3a
CTE.AMS.3b
CTE.AMS.3c
CTE.AMST.2b
CTE.DM.1a
CTE.DM.1b
CTE.DM.1c
CTE.DM.1d

Literacy
L.RST.9-10.4
L.RST.9-10.5
L.RST.9-10.7

Math
A-CED.4
F.B.5
G-GMD.B4
N.Q.3
S.MD.7

Science
S.PS2-5
S.PS4-1
S.PS4-6
Integrated Production Technologies – Course 1 (continued)

**Written Assessment:**

Administration Time: unlimited  
Number of Questions: 49

**Areas covered:**

- 35% CTE  
- 20% Literacy  
- 20% Math  
- 25% Science

**Sample Questions:**

Based on the electrical color code:
A. Red = input; black = output  
B. Red = negative; black = positive  
C. Red = positive; black = negative  
D. Red = Ground (GND); black = Supply Voltage (SV)

If one bulb in a circuit fails but the other bulbs remain lit, what might you conclude?  
A. The lit bulbs are in a different circuit  
B. It is a series circuit  
C. It is a parallel circuit  
D. The wire to the burnt bulb isn’t thick enough

Which type of energy is a form of electromagnetic energy?  
A. Sound  
B. Chemical  
C. Nuclear  
D. Light

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