INTEGRATED PRODUCTION TECHNOLOGIES – COURSE 4

Test Code: 9039
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
1 b CTE
1 c CTE
1 f CTE
3 g CTE
3 I CTE
3 I CTE
4 b CTE
4 d CTE
4 e CTE

Literacy
RST 11-12.1 Literacy
RST 11-12.2 Literacy
RST 11.12.2 Literacy
RST 11-12.4 Literacy
RST 11-12.6 Literacy
RST 11-12.10 Literacy
Integrated Production Technologies – Course 4 (continued)

**Math**
- S-ID.4 Math
- S-MD.3 Math
- F-LE.4 Math
- F-BF.5 Math
- N-VM.1 Math
- N-VM.3 Math
- F-LE.5 Math
- G-MG.1 Math
- G-MG.3 Math
- S-ID.1 Math
- S-ID.2 Math
- S-ID.3 Math
- N-Q.1 Math
- A-CED.3 Math

**Science**
- ETS 1-2 Science
- ETS 1-3 Science
- PS 2-1 Science
- PS 2-3 Science
Integrated Production Technologies – Course 4 (continued)

**Written Assessment:**

Administration Time: unlimited
Number of Questions: 71

**Areas covered:**

- 39% CTE
- 20% Literacy
- 21% Math
- 20% Science

**Sample Questions:**

When creating a CNC program to perform milling of a 3D part, which of the following are the dimensions that you must specify at each point on the milling path?

A. A, B, and C
B. XX, YY, and ZZ
C. AA, BB, and CC
D. X, Y, and Z

Describe the two-dimensional shapes that are used to create the three-dimensional shape of a cylinder (examples: soup can, coke can).

A. A rectangle
B. Three circles
C. Two non-congruent circles and a rectangle
D. Two congruent circles and a rectangle

What test should be used to gather data on materials to be used for building a work piece?

A. Elasticity test.
B. Flexural stress test.
C. Deformation test.
D. 3-point bending test.

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