

SREB

Integrated Production Technologies - Course 4

Code: 9039

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.