

Name: _____ Date: _____

VEX CTE Workcell

Unit 1 - Lesson 1: Introduction to Factory Automation

1. Which of the following best describes a workcell?

- a. A grouping of machines, people, and other equipment companies use in their manufacturing production process.
 - b. A programmable machine with joints and segments that replicate the motion of a human arm.
 - c. A direction of movement allowed by the robot's joints and structure.
 - d. The use of technology and machines to streamline and improve manufacturing.
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2. Which of the following is TRUE of industrial automation?

- a. It is not something that affects most people in their daily lives.
 - b. It is the use of technology and machines to streamline and improve manufacturing and production processes in factories.
 - c. Automation typically decreases efficiency and makes factories less safe.
 - d. There is a low degree of precision in most industrial automation systems.
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3. _____ can be described as a programmable machine with joints and segments that replicate the motion of a human arm.

- a. Industrial automation
 - b. A workcell
 - c. A robotic arm
 - d. An axis
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4. Reflect on your learning in this Unit so far. On a scale of 1 to 5, with 1 being 'Not confident at all' and 5 being 'Very confident,' how confident are you that you will reach your learning targets for this unit? (Circle one)

1 2 3 4 5

What questions or uncertainties do you have, if any, about the material in the first lesson of the unit that need to be addressed in order for you to meet your learning targets? Be prepared to discuss this question with your instructor.

5. Now that you have completed Lesson 1, how are you feeling about what you are learning in this Unit? On a scale of 1 to 5, with 1 being 'Completely disinterested' and 5 being 'Very excited and motivated to learn more', rate your level of excitement and interest in this Unit. (Circle one)

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Additionally, briefly explain why you chose this rating.
