Session 5--Presentation Thumbnails

**12/18/2018**

**WISE Pathways**

Women in Sustainable Employment

Building awareness of careers in construction, energy, and manufacturing for women.

**Manufacturing Industry**

*r*

**What is Manufacturing?**

* The Manufacturing sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products.
* Establishments in the Manufacturing sector are often described as plants, factories, or mills and characteristically use power-driven machines and materials-handling equipment.
* Manufacturers produce products such as food, textiles, paper, plastics and rubber, metals and machinery.

**1**

**CNC Machine Operator: What do you do?**

* Stop machines to remove finished workpieces
* Modify cutting programs to account for problems encountered during operation
* Calculate machine speed and feed ratios and the **size** and position of cuts

I

12/18/2018

**Machinist: What do you do?**

* Calculate dimensions and tolerances using knowledge of mathematics and instruments
* Select the appropriate tools, machines, and materials to be used in preparation of machinery work
* Monitor the feed and speed of machines during the machining process
* Set up, adjust, and operate all of the basic machine tools

•

•

•

•

**CNC Machine Operator:**

**What do vou do?**

Measure dimensions of finished workpieces to

ensure conformance to specifications Remove and replace dull cutting tools Mount, install, align, and secure tools, attachments, fixtures, and workpieceson machines

Adjust machine feed and speed, change cutting

*}*

1

tools, or adjust machine controls when automatic programming is faultv or if machines malfunction

12/18/2018

......

**Maintenance Worker,**

,

**Machinery:** What do you do?

* Reassemble machines after the completion of

repair or maintenance work

* Start machines and observe mechanical operation to determine efficiency and to detect problems
* Inspect or test damaged machine parts, and mark defective areas
* Install, replace, or change machine parts and attachments

•

•

•

**Electronics Assembler:**

What do you do?

Read and interpret schematic drawings,

diagrams, blueprints, specifications, work orders, or reports

Position, align, or adjust work pieces or

electrical parts to facilitate wiring or assembly Pack finished assemblies for shipment and transport them to storage areas

Explain assembly procedures or techniques to other workers

I

•

**Electronics Assembler:**

What do you do?

* Inspect or test wiring installations, assemblies, or circuits
* Assemble electrical or electronic systems or support structures and install components, and other pieces
* Adjust, repair, or replace electrical or electronic component parts to correct defects and to ensure conformance to specifications

12/18/2018

**What is the NCRC?**

The ACT WorkKeys National Career Readiness Certificate (ACT WorkKeys NCRC®) is an assessment-based credential issued at four levels; Platinum, Gold, Silver, and Bronze. The NCRC measures and certifies the essential work skills needed for success in jobs across industries and occupations. With an NCRC, you can:

* **Build confidence that your skills meet the needs or e mployers z-= \*** . f ; :{ ':!":."''" " '\

- )

•

•

•

**Show prospective employers concrete proof of the skills you 1 1**

**\**

,\_. · ·

*,***e,***!* **-**

--- I1

**Apply real-worfd use to coursework from the classroom**

**Oetennine sktll improvement and training needs**

A<"W\"

 -

* **Improve the opportunities for career changes and advancement**
* **Earn college credit at many lnsliluUons and reach academic goals more quickly**

**NCRC: Qualifying for the Credential**

* A mulli-Ievel credential
* **Requires scores of Level 3 or higher on three assessments:**

*AppliedMath, Workplace Documents, Graphicuteracy*

- **Bronze:**

**Level 3 or higher on each assessment**

* Silver. Level 4 or higher
* Gold: Level 5 or higher
* Platinum: Level 6 or higher

If you are having challenges using the [SkillsCommons.org](http://SkillsCommons.org) materials, please contact us at support@skillscommons.org  and we will work with you to

resolve the accessibility challenges and/or provide an equally effective alternative access using the Equally Effective Access Planning Tool developed

by the California State University. SkillsCommons is committed to supporting the progressive standard set by Section 508 of the Rehabilitation Act of 1973.

This workforce solution was funded by a grant awarded by the U.S Department of Labor’s Employment and Training Administration. The solution

was created by the grantee and does not necessarily reflect the official position of the U.S Department of Labor. The Department of Labor makes no

guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and

including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

 This work is licensed under the Creative Commons Attribution 4.0 International License. It is attributed to Ohio TechNet, HHW Ohio and the Center for

Energy Workforce Development (CEWD). To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>.