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| Course: | MAC 210 |
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|  | Title: | Intro to Swiss Turn Operations |
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|  | Long Title: | Introduction to Swiss Turn Operations |
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|  | Course Description: | Introduces the theory behind Swiss turn machine operations. Students will learn about the parts of the machine, general maintenance, and machine setup. Students will learn how to operate a dual spindle Swiss turn machine. |
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|  | Min Credit: | 3 |
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|  | Max Credit: |  |

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|  | Course Notes: | NCE 2.11.15 JLG |
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|  | Origin Notes: | RRCC |
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 STANDARD COMPETENCIES

 1. Demonstrate effective shop and building safety procedures.

 2. Demonstrate correct uses of Swiss turn machining.

 3. Identify machine maintenance and adjustment needs.

 4. Maintain/adjust equipment as necessary for proper operation.

 5. Set up tools and material on primary and secondary spindles.

 6. Set up tools and material on secondary spindles.

 7. Interpret the machine interface.

 8. Explain machine settings, functions, variables, offsets, controls, and program selection.

 9. Build products typical of Swiss turn machining

 TOPCIAL OUTLINE

 I. Swiss Theory

      A. Impacts of Rigidity

      B. Impacts of Speed

 II. Machine maintenance

      A. All Parts of the Machine

      B. Bushing Setup and Adjustment

      C. Coolant Maintenance

 III. Machine Setup

      A. Tooling Selection

      B. Setting Tooling and Material Offsets

 IV. Machine Control

      A. Settings

      B. Offsets

      C. Functions

      D. Variables

      E. Controls

      F. Program Selection and Operation