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MFG 202-Tube and Pipe Fabrication Processes 1- Chris Dodson- Winter 2024

* Part A: Your Plan **DIRECTIONS** 1. Choose three of your course outcomes to assess and report on this term (these will also be used in your Student Course Evaluation survey): Outcome #1

Fabricate tube assemblies to specification from blueprint.

* Outcome #2

Utilize math to accurately predict tube project cost and material usage.

* Outcome #3

Use digital design programs to create a blueprint.

Have you completed an assessment for this course prior to this term?

No

If yes, are you assessing different outcomes?

No

Comments:

(No response)

2. To which degree(s) or certificate(s) does your course map? **Degree, Certificate, & Program Outcomes**

Manufacturing Certificate, Advanced Manufacturing Technology

* Method of Assessment 3. What methods will be used to assess individual student understanding of each of these outcomes? (Please be specific.) Outcome #1: Method to assess student understanding

This outcome will be assessed using both hands on and written application. During the assessment students will identify ASME standard symbolism for welding procedures, fabrication tolerances, and dimensional specification expanding into creation of a product through fabrication.

*** Outcome #2: Method to assess student understanding**

This outcome will be assessed through comparison of calculated material usage reports submitted prior to fabrication, and actual consumption reports submitted post fabrication of each product created.

*** Outcome #3: Method to assess student understanding**

This outcome will be assessed through submissions of blueprints with adherence to ASME standards.

*** 4. How will you know if you were successful in your efforts to teach this outcome? Outcome #1:**

Students will provide independent work samples from various blueprints with increasing difficulty with tolerances beginning at .100" and ending with tolerances of .025"

*** Outcome #2: How will you know if you were successful in your efforts to teach this outcome?**

Students will provide usage reporting on pre fabrication estimates vs post fabrication totals with a corrective action plan to focus on material usage efficiency.

*** Outcome #3: How will you know if you were successful in your efforts to teach this outcome?**

Student work will produce blueprints according to ASME standards with increasing difficulty. Students will be required to represent datums and features using ASME standard symbols as well as provide detailed overview of fabricated parts and assembly procedures.

5. Instructor Questions: Create two course specific questions to be included on the Student Course Evaluation. Question #1

Did this course offer enough real project based learning experience for you to feel comfortable entering the workforce in this field?

Question #2

Do you feel that there was any content that was not sufficiently covered?

Do you require the names of students who complete the course evaluation survey? (Please note: names will be sent to instructors the Thursday before term ends)

NO

Reminder, when completing Part B, instructors will be asked the following questions: Describe anything you did to assist the institutional effort to support students in improving achievement of the specified criteria for the following Institutional Learning Outcomes (ILO): 1. ILO#1 - Communication - "Content Development" and/or "Control of Syntax and Mechanics" 2. ILO#2 - Critical Thinking/Problem Solving - "Evidence" and/or "identify strategies" 3. ILO#4 - Cultural Awareness - "Openness" (Encouraging our students to "Initiate and develop interactions with culturally different others") 4. ILO#5 - Community and Environmental Responsibility - "Understanding Global Systems" and/or "Applying Knowledge to Contemporary Global Contexts" 5. ILO#3 - Quantitative Literacy - "Application/Analysis" and/or "Assumptions"

(No response)