

Advanced Manufacturing Processes (AMPs)

Assignment-II

by

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INDIVIDUAL ASSIGNMENT AMP

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As a process engineer, you need to prove that your process is reliable, capable with no major issues. Before you get manager approval or buy-off on your own process, you must design the experiment(s), collect the data, analyze the data and provide justification that your process is ready before the mass production or high-volume manufacturing is kick-off. This is pre-production or pilot-run activities before the company launches a new product.

You must choose any manufacturing process that the response is measurable and the equipment is available in the UMP facilities.

- a) Design your own experiment(s) that sound technical and logic on how to prove that your process is robust. Collect and analyze the data. You can use Microsoft Excel or any software (eg. Statistical software like JMP, Minitab, design expert, etc) to analyze your data.

- a) Provide justification based on your results

Report (Free Format)

- Introduction of process that you have been selected
- Design of experiment(s) that you have proposed
- Raw data, data analysis, and results.
- Provide justification based on your results. Do you think your process is ready for mass production?