

Branch:

Topic :



GaTtu B^h ai

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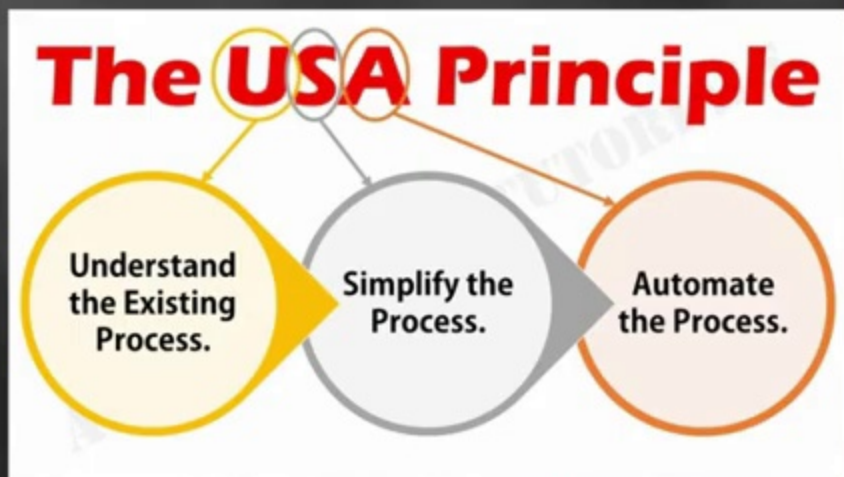
USA Principle



USA Principle



1. **U**nderstand the existing process
2. **S**implify the process
3. **A**utomate the process.



USA Principle



The USA Principle is a common sense approach to automation projects. Similar procedures have been suggested in the manufacturing and automation trade literature, but none has a more captivating title than this one. USA stands for'

USA Principle



1. Understand the Existing Process:

The obvious purpose of the first step in the USA approach is to comprehend the current process in all of its details with answering of all following questions.

1. What are the inputs?

USA Principle



1. Understand the Existing Process:

The obvious purpose of the first step in the USA approach is to comprehend the current process in all of its details with answering of all following questions.

1. What are the inputs?
2. What are the outputs?
3. What exactly happens to the work unit between input and output?
4. What is the function of the process? How does it add value to the product?
5. What are the upstream and downstream operations in the production sequence, and can they be combined with the process under consideration?

USA Principle



1. Understand the Existing Process:

Some of the basic charting tools used in methods analysis are useful in this regard, such as the operation process chart and the flow process chart.

This information may be valuable in identifying what output variables need to be measured for feedback purposes and in formulating algorithms for automatic process control.

USA Principle



2. Simplify the Process:



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