



1
ASK

Can you state the problem?

2
RESEARCH

Use a variety of sources to gather in depth information. What have others done before?

Ask "what if" questions to generate different possibilities. Review and analyze possibilities with fellow engineers. Choose the best idea.

3
IMAGINE

• Draw a Diagram.
• Make a list of the steps involved.
• List materials and resources.
• Create a time line for completion.

4
PLAN

• Follow the plan as you create.
• Test against criteria.

5
CREATE

6
IMPROVE

• Use observations to improve the design.
• Communicate results.

MCAA
Engineering
Design Loop

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