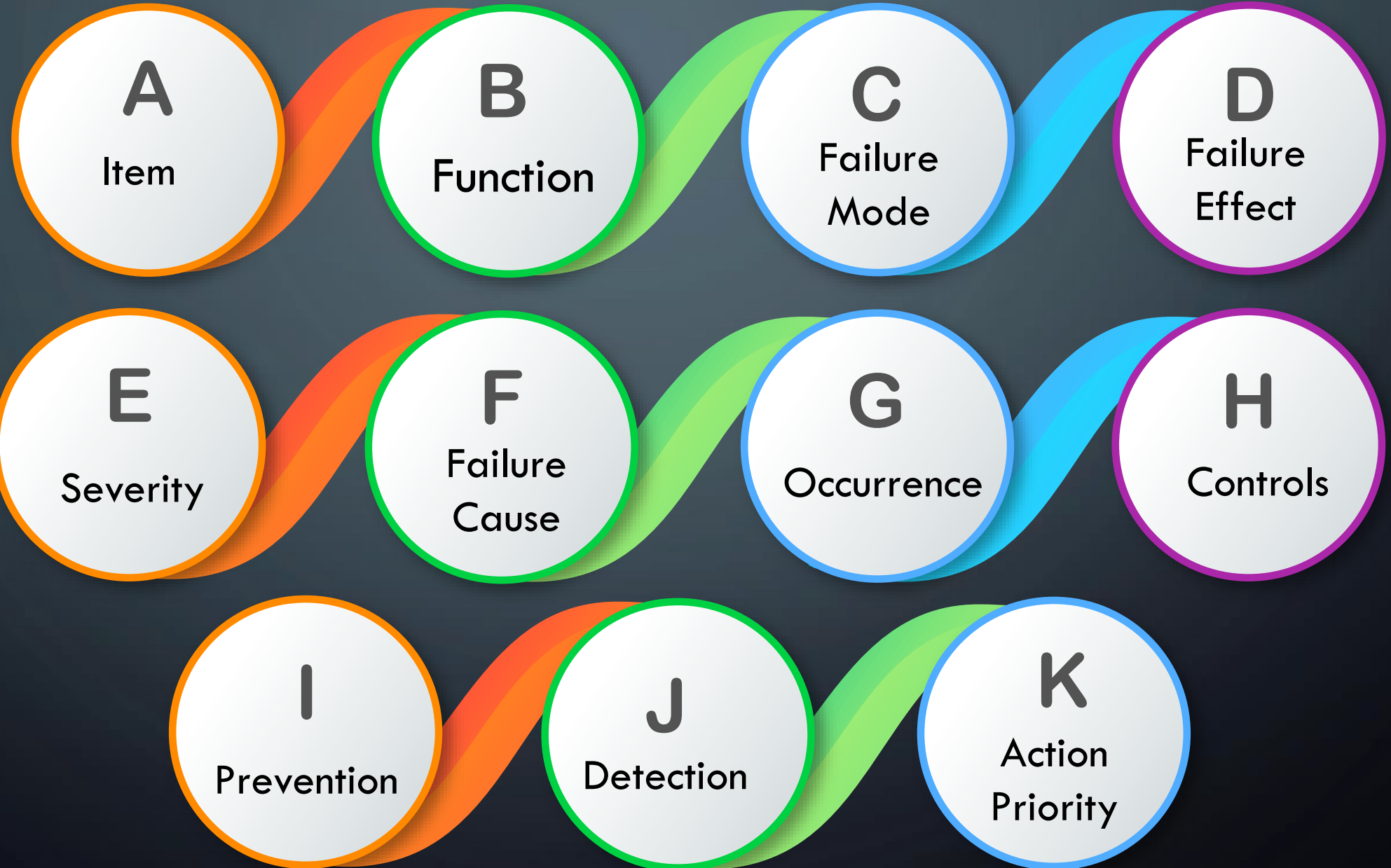


# FAILURE MODE & EFFECTS ANALYSIS - GLOSSARY



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## A. Item:

- The focus of the FMEA project. For a system, FMEA this is the system itself.
- For a design FMEA, this is the sub system or component under analysis.
- For Process FMEA, this is usually one of the specific steps of the manufacturing or assembly process under analysis, as represented by an Operation Description

## B. Function:

- What the item or process is intended to do, usually to a given standard of performance or requirement.
- For design FMEA, this is the primary purpose or design intent of the item.
- For Process FMEA's this is the primary purpose of the manufacturing or assembly operation. There may be many functions for each item or operation

### C. Failure Mode (FM):

- The manner in which the item or operation fails to meet or deliver the intended function and its requirements depending on the definition of failure established by the analysis team.
- Failure modes may include failure to perform a function within defined limits, inadequate or poor performance of the function, intermittent performance of a function, and/or performing an unintended or undesired function. There may be many failure modes for each function.

### D. Failure Effect (FE):

- The consequence of the failure on the system or end user.
- For process FMEA's, the team should consider the effect of the failure at the manufacturing or assembly level, as well as at the system or end user.
- There can be more than one effect for each failure mode. However, in most applications, the FMEA team will use the most serious of the end effects for the analysis.

## E. Severity

- A ranking number associated with the most serious effect for a failure mode, based on the criteria from a severity scale.
- It is a relative ranking within the scope of the specific FMEA and is determined without regard to the likelihood of occurrence or detection.

## F. Failure Cause (FC):

- The specific reason for the failure, preferably found by asking “Why” until the root cause is determined.
- For design FMEA's, the cause is the design deficiency that results in the failure mode.
- For process FMEA's, the cause is the Manufacturing/Assembly deficiency (or source of variation) that results in the failure mode. In most applications, particularly at the component level, the cause is taken to the level of failure mechanism.
- By definition, if a cause occurs, the corresponding failure mode occurs. There can be many causes for each failure mode.

To be continued..



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1



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- Present your induction in an innovative manner
- This is created in an assemble fashion to convenient our clients.

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2



SPES | My Guru



Transform your existing Standard Operating procedures (SOPs) of assembly/Manufacturing process into creative video format.

### Benefit(s):

- Be assured of providing independent learning of the process to your employees.
- Repetitive learning is achieved through video mode to equip oneself further
- Training period can be reduced





## Our Flagship Services

3



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