

## Checklist:

### Step 2 – Structural Analysis in Accordance with Standardized FMEA Method Description

- ✓ 1. Object of analysis divided into systems, subsystems, and components. Entire structural content of the object of analysis is shown → Graphic presentation preferred.
- ✓ 2. Two options: tree structure diagram or block diagram

#### Important questions:

- What systems and subsystems make up the object of analysis and how are they divided? Where are their system boundaries? How can system boundaries be functionally defined? (Please note: Defining system boundaries according to parts list structures, assembly sequences, etc. is not advisable. It is better to define them based on the system's functional idea.)
- Important for block diagrams: Where are the system's external and internal interfaces? (Block diagrams provide the input for the next step.)

#### Tips and tricks:

- Do not show the object of analysis in the first level of the tree structure diagram. Instead, show the highest-order system. In practice, this means: If a system is to be developed for a vehicle, then the first level of the tree structure diagram is the entire vehicle and not the object of analysis (e.g. transmission).
- In the block diagram, the interfaces must be divided into three categories in order to clearly identify them for exchange purposes. Only three type of things can be exchanged:
  - i) Exchange of signals
  - ii) Exchange of energy (thermodynamic temperatures, mechanical energy, etc.)
  - iii) Exchange of substances or materials

(Color-code these if possible)

For questions/suggestions, please contact us at  
Tel. +49 5407 81 86 40

[info@dietz-consultants.com](mailto:info@dietz-consultants.com)