ISO 26262 Functional Safety

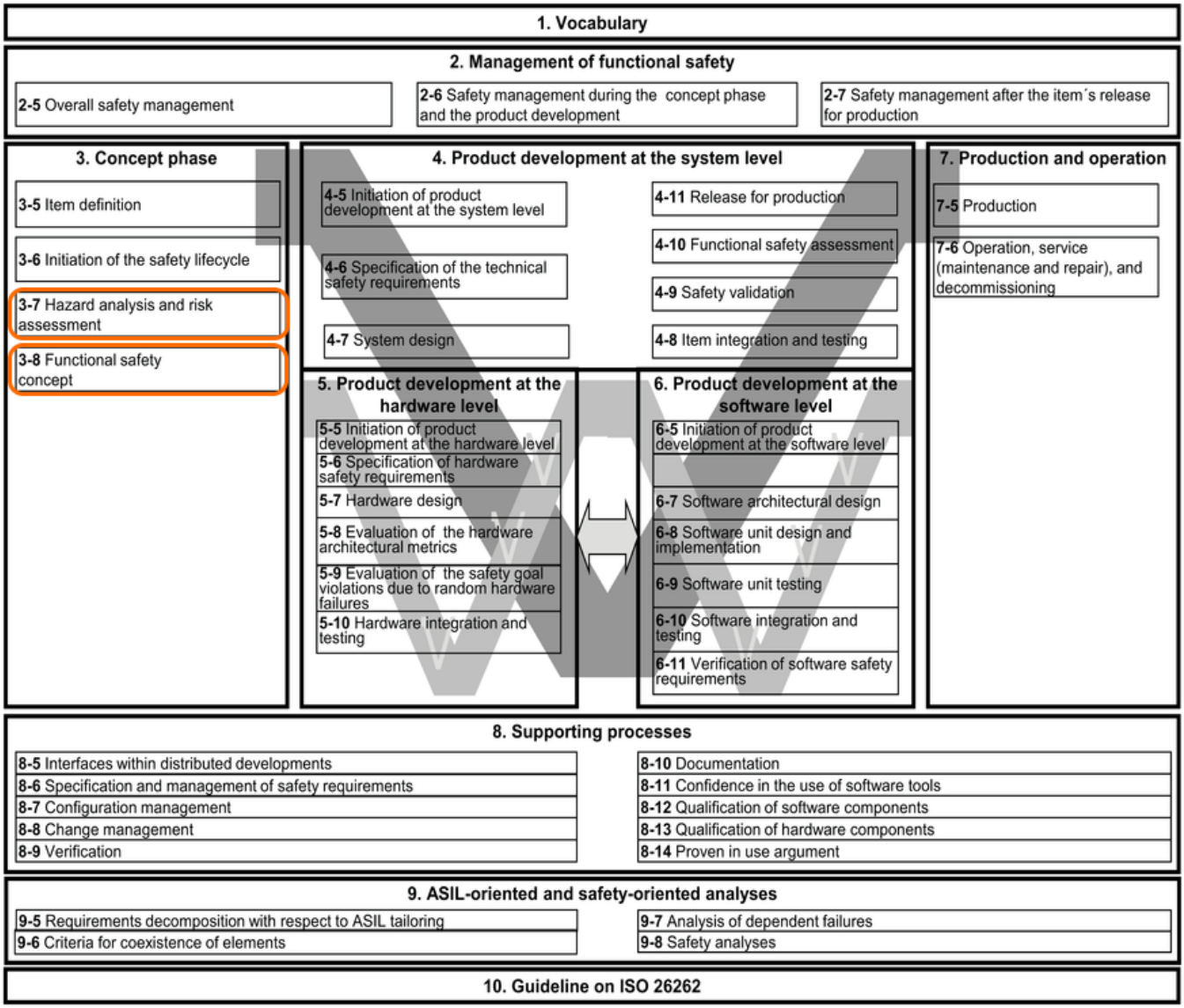
The ISO 26262 Functional Safety Plugin supports the ISO 26262 standard which is intended for electric and/or electronic systems in production vehicles. This includes driver assistance, propulsion, and vehicle dynamics control systems. The goal of ISO 26262 is to ensure safety throughout the lifecycle of automotive systems and equipment.

The International Organization for Standardization (ISO) put forth ISO 26262 for road vehicle functional safety. The standard was created to to help avoid the risk of systematic failures and random hardware failures through feasible requirements and processes. ISO 26262 is a risk-based safety standard that' s derived from IEC 61508. The standard is comprised of 10 parts that span the breadth of the automotive safety lifecycle including management, development, production, operation service and decommissioning.

The ISO 26262 Functional Safety plugin directly covers the following parts of the standard:

3-7 Hazard analysis and Risk assessment
Exposes all hazards and determines the risk involved. A safety goal with an assigned Automotive Safety Integrity Level (ASIL) is the result of performing Hazard Analysis and Risk Assessment (HARA).

3-8 Functional Safety Concept
The Functional Safety Concept encompasses functional implementation of independent requirements on the safety of an item. It refines safety goals by defining safety goals attributes and establishes the link between functional safety requirements and the preliminary architecture.



The ISO 26262 standard structure.