

Intland's Automotive ISO 26262:2018 & ASPICE Template

Automotive Product Development and Functional Safety

4/3/2020





What is a car?

- Purpose-built layers of components
- Components:
 - Mechanical
 - ✓ Hardware

Software

- Others (Liquids, oils, glues, etc.)
- ✓ OEM Tier 1 Tier 2 … Tier n





How do we build a car?





Who builds a car?







Who is this template for?







What matters for consumers?

- My purpose/intended use of the car
- Quality characteristics necessary for intended use



My assumed safety in the car





Why do these standards matter?







Real-life example (SW-HW failures)



Errors are a fact of life – they were alway with us, and are here to stay.



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Safety and Quality – what's all the fuss?

Random errors

We can calculate, estimate and plan failures

Control: Safety Analysis (DFMEA,PFMEA,FMEDA, DFA, etc. - ISO 26262)



Systematic errors

Systematic errors (SW & HW Designs) Probability is 100%, failures can come anytime

Control:

Process control measures (ASPICE, ISO 26262)

ASPICE ISO 26262





Safety and Quality – let's visualize that!

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Safety and Quality – let's visualize that!



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Automotive Project Template

How to use the template?

- Discover it with our demo environment
- Set your goals
- Build your use case, import your data
- Train your team and use it
- Explore more and extend
- Come back to us with your feedback!

Automotive template





OK, so what does this template provide?





- Bidirectional traceability references
- Ready-made reports

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- Workflows
- Demo/Training data
 - AUTOSAR's Safety Case example

Automotive template



OK, so how does this template support me?

OEM, TIER 1...n Suppliers

- Enable transparency in design processes
- Ensure digitalized design process control
- Manage digitalized, intelligent work products
- Enhance supplier integration

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OK, so why should I use this template?

OEM, TIER 1...n Suppliers

- Automate administrative tasks by digitalization
- Increase value-added activities
- Motivate engineers by focusing on engineering excellence
- Enhance product quality, reduce recalls, increase customer satisfaction

Automotive template

OK, so why should I use this template?



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Why ASPICE?







Main values

- Increases project efficiency and productivity
 Guarantees process quality
 Helps manage-high complexity projects
- Provides a foundation for safety engineering
- Reduces project delivery risks