

ISO 26262 / ASPICE



The standards deal primarily with the development project (but not only)

Standard compliance building blocks

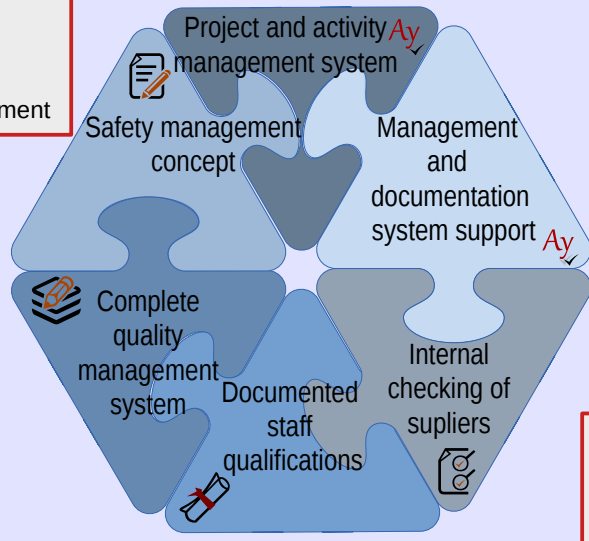
The standard requires system support for processes and projects

- Project Management System**
- ✓ Demonstrable procedural compliance
 - ✓ Planning steps based on methodology
 - ✓ Records of all tasks and their completion
 - ✓ System support for process areas

- Safety management concept**
- ✓ Risk assessment tools
 - ✓ Qualified product risk assessment
 - ✓ Identification of safety requirements
 - ✓ Safety manager
 - ✓ Checked compliance all over development

- Project documentation management**
- ✓ Document management system
 - ✓ Packaging and configuration management
 - ✓ Documented origin of documents
 - ✓ Code management of SW under development

- System for projects, production and support processes**
- ✓ Documentation "PDCA" - Plan - Do - Check - Act - Improvement of processes
 - ✓ A system ready for the real Assessment - qualified assessment of activities



- Audits independently verifying compliance with procedures**
- ✓ Review of project activities
 - ✓ Supplier audits
 - ✓ Review of own quality system according to all standards - ISO 26262, ASPICE, ISO21434, - VDA 6.3, Formel Q, ...

The assessment is not a pro forma

- Mandatory qualifications of staff**
- Training:
- ✓ ISO 2626 / ASPICE
 - ✓ System Analysis Languages (SysML)
 - ✓ Processes
 - ✓ Internal tools

- Implemented ISO 26262 process areas**
- Activity management workflow
 - Task control
 - Configuration management for documentation
 - Requirements traceability
 - System analysis tool
 - Test management and documentation

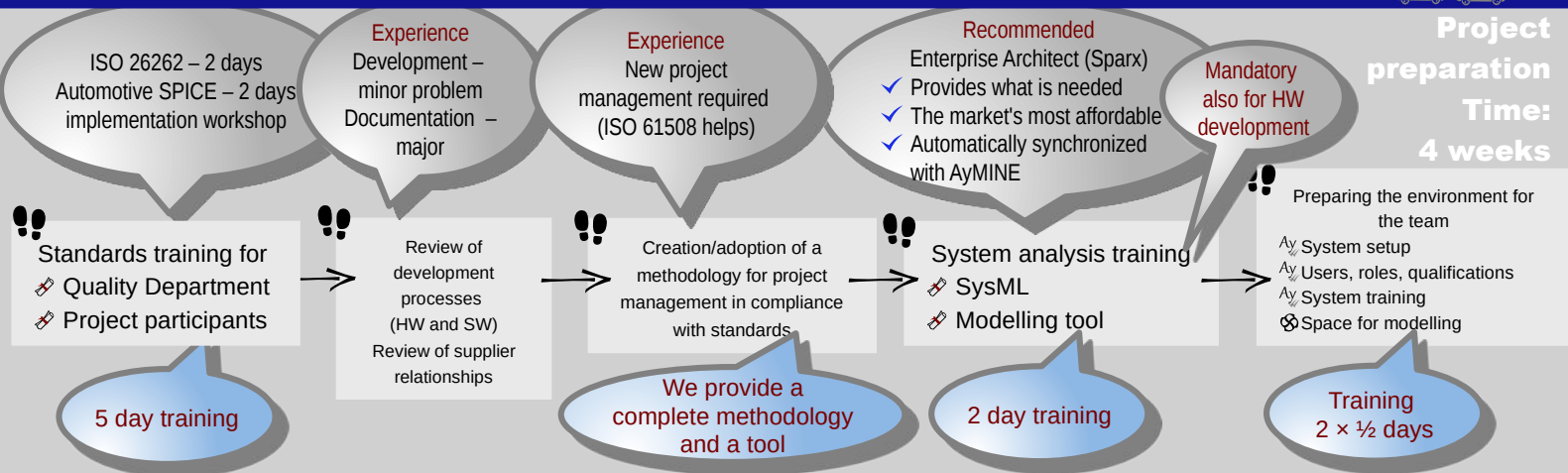
Key requirements of the standards

- Requirements for software development - ASPICE**
- Code change tracking
 - Code security assurance (ISO 21434)
 - Requirements traceability (to analysis level)
 - Analysis tools (static code analysis)

- Related mandatory standards**
- TISAX / ISO 27000, ISO 21434, ISO 16949
- Complete managed QMS
 - Ensuring code security
 - Security of all documentation (protection against cyber threats)
 - Secure information exchange with suppliers (protected portal)

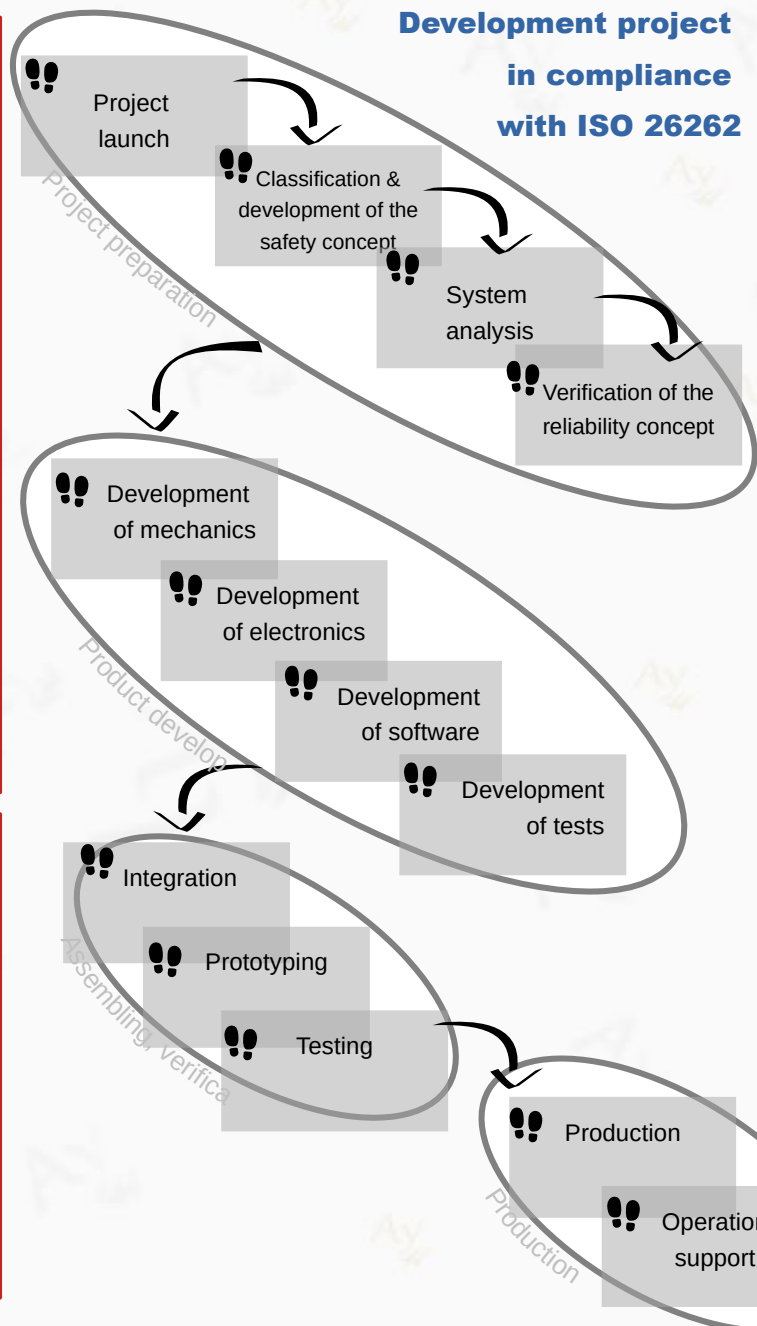
Implementation of ISO 26262 / ASPICE

Learn, set the rules, start the project



Mandatory system support for records

- Requirements and analysis**
 - Evidence of requirements processing
 - Management of requirements and relations between them
 - System analysis (HW and SW)
- Testing**
 - Relationships between tests and requirements
 - Testing workflow
- Project management**
 - Planning
 - Task assignment and processing
 - Risk management
 - Problem management
 - Decision making
- Documentation management**
 - Configuration management
 - Versioning
 - Document relationships



Development project in compliance with ISO 26262

In how long can the project be started?

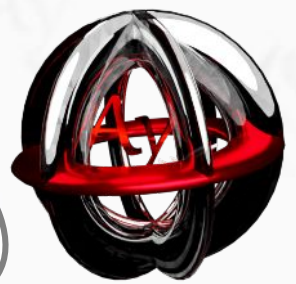
- ✓ ISO 26262 training is required prior to the project
- ✓ Safety assessment experience (FMEA) is required
- ✓ The project can be started in AyMINE with the methodology within 2 weeks from the decision
- ✓ The entire preparation takes approx. 4 weeks; can also be done during the project

Needed roles?

- Security Manager**
 - Setting and meeting safety objectives
 - Quality Manager**
 - Reviewing compliance with methodologies
 - Solution Architect**
 - Safety analysis
 - System analysis
 - Test Manager (HW/SW)**
 - Verification Concepts
 - Independent verification
- + professional roles

What to watch out for?

- ⚠ The standard cannot be met retrospectively
- ⚠ Efficient system support for processes is mandatory
- ⚠ Mandatory independent roles for test development and test design - cannot be merged
- ⚠ Many years after the project, detailed evidence of when who did what and that it was actually done is required
- ⚠ Personal responsibility for security



Implementation of ISO 26262 / ASPICE

Completing a project task

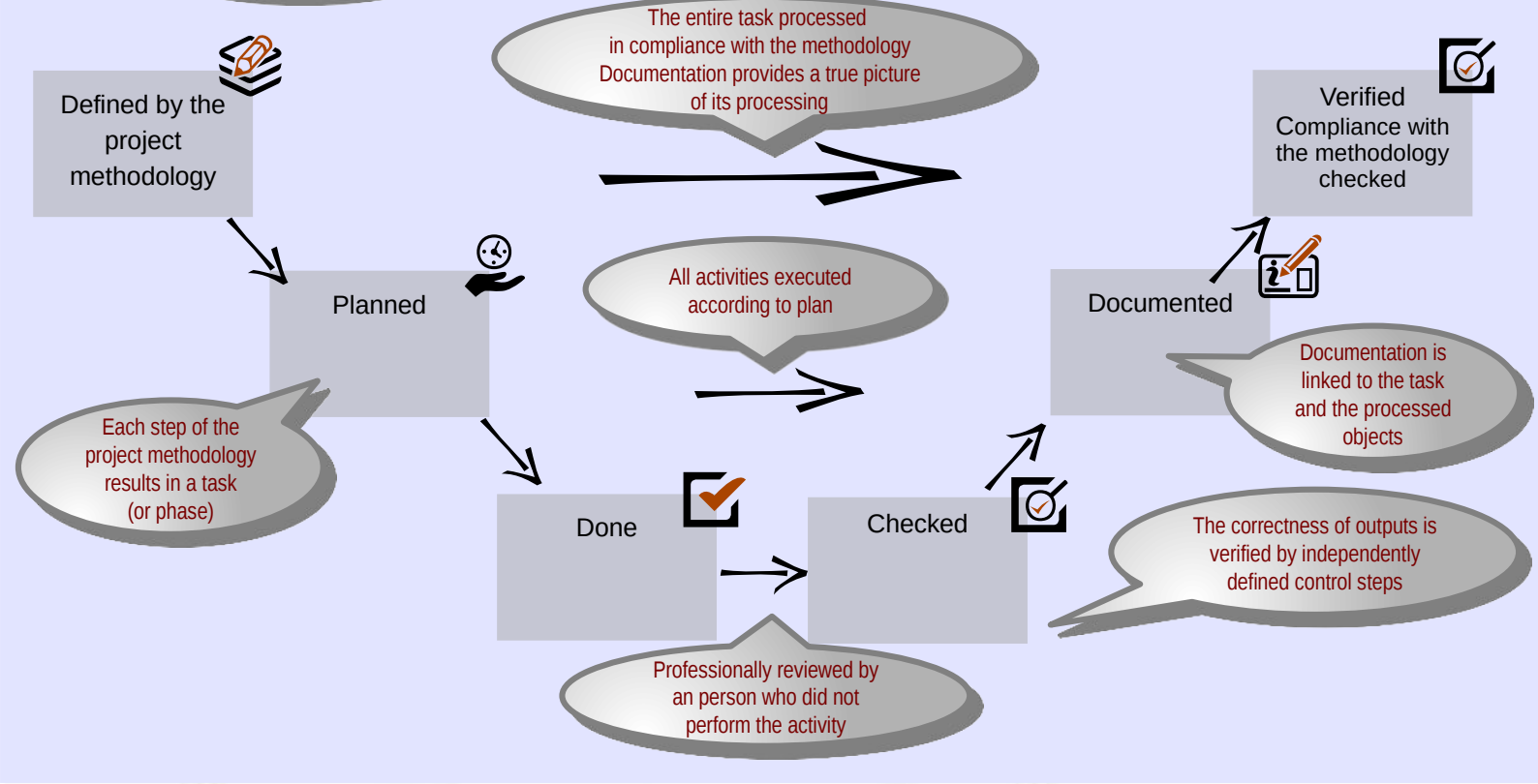


For each task

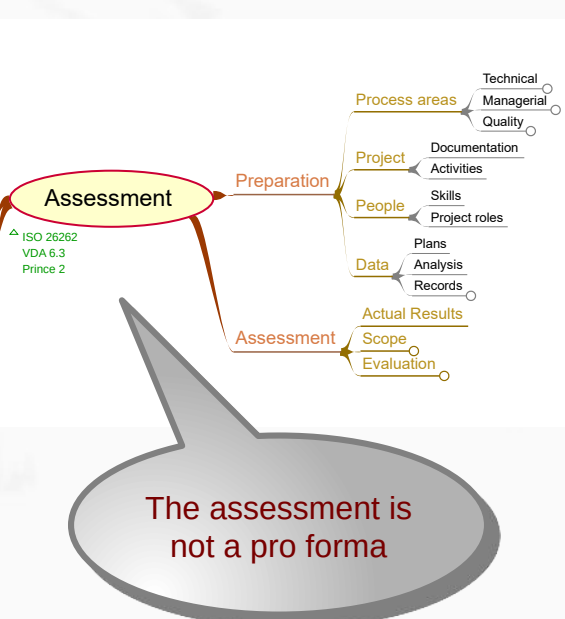
- ✓ When it was created
- ✓ Which items of the methodology are to be followed
- ✓ Description of the checks on its implementation
- ✓ Who was involved (+ whether qualified)
- ✓ Who handled what
- ✓ How much time was required

Standards prescribe

- ✓ Dozens of different types of records
- ✓ Hundreds of specific checks for
 - Hardware
 - Software
 - Integration
 - Documentation
 - Management method



- Mandatory evidence**
In addition to the deliverables
- ✓ Project, security plans
 - ✓ Evidence of activities performed
 - ✓ Completion of all planned steps
 - ✓ Documentation packages
 - ✓ Minutes
 - ✓ Safety analyses (FMEA)
 - ✓ Planned tests, checks, test reports
 - ✓ Evidence of processing of all requirements
 - ✓ Evidence of documentation submitted
 - ✓ Risk and problem management
 - ✓ Evidence of system support for process areas
 - ✓ Records of internal audits at suppliers



- Assessment**
What to be prepared for
- Methodological basis**
- ISO 33000,
 - Level 3 - Defined processes
 - Standards, that product development and the product itself comply with
- Sources**
- ✓ Submission of evidence
 - ✓ Check
 - ✓ Control interview
 - knowing and showing the procedures
- Who does - the customer decides**
- ✓ May agree to external audit (PDQM)
 - ✓ Own auditors

About AyMINE

What it is and why it is worth it

What it will do for you

- ✓ **Project management compliant with standards**
 - ☞ Connecting activities to workflows - connecting project management to methodology
 - ☞ Support for project activities
 - ☞ Automatic data storage for audit
 - ☞ Documentation of staff qualifications and competencies, including history
- ✓ **Supplier portal**
 - ☞ Secure information sharing
 - ☞ Documented what information has been passed on
 - ☞ Long-term access to information for suppliers
- ✓ **Open, controlled communication**
 - ☞ Documented for audit, review and availability to other staff
 - ☞ Prevents corruption, harassment and favouritism
 - ☞ Saves time - eliminates "carbon copy" emails
 - ☞ Creates an open, auditable environment
 - ☞ Links to online public forms - easy to receive submissions in different languages
- ✓ **Efficient work management**
 - ☞ Automation of meetings, decision making
 - ☞ For people in the office, on the move, online
 - ☞ Overview of who is actually working on what
 - ☞ Connection to automatic translators
 - ☞ Documentation management and protection
- ✓ **Data protection**
 - ☞ TISAX, NIS2, GDPR, ISO 27000
 - ☞ Securely stored contacts
 - ☞ Protection against data "robbers" (WhatsApp, etc.)
 - ☞ Tasks in a separate application

Architecture

- ✓ **Open modular system**
 - ☞ Easy to maintain
 - ☞ Quickly expandable
 - ☞ Does not create vendor dependency
- ✓ **Open to suppliers**
 - ☞ Development based on open-source
 - ☞ Training and support system provided
 - ☞ Low developer requirements
 - No knowledge of web application development needed
 - PHP / JSONC languages are sufficient
- ✓ **Framework architecture principles + modules**
 - ☞ 100% object-oriented modern back-end
 - ☞ Consistent rights protection
 - Logically decoupled
 - Business functionality (back-end)
 - Presentation and control (front-end, applications),
 - Orchestration
 - Appearance
 - Language versions
 - Documentation - each part can be independently replaced

Running in our place and yours

- ✓ **In the cloud under our care**
 - ✓ No worry about the system
 - ✓ Always up to date
 - ✓ Cheaper to manage and develop
- ✓ **At your place**
 - ✓ All under your control
 - ✓ Can be placed behind firewalls
 - ✓ Backup integration and server management
 - ✗ No mobile app
 - ✗ Slower updates

Eco-friendly

Where others need 5kW
AyMINE just needs 0.5kW

Minimises demands on:

- ✓ Energy consumption
- ✓ Data transmissions
- ✓ Hardware performance

Helps healthy living

- ✓ Do not print
 - Information in your pocket
- ✓ Efficient communication
 - Less stress
- ✓ Easier cooperation online



IBM Analyst

I've never seen such a well thought out system
You've taken care of everything.

Šéfbot director

That's incredibly fast. I don't know how you do it.



Your AyMINE supplier



21st century system

- ✓ **High-Tech**
 - ☞ Cooperation with academia
 - ☞ Designed to support rapid development
- ✓ **Efficient on mobile and desktop**
 - ☞ Fast even on weak mobile phones
 - ☞ Takes advantage of the possibilities of large screens
- ✓ **Web browser application**
 - ☞ Runs on any device
 - ☞ No infrastructure requirements
 - ☞ Protection from viruses

User-friendly

Ergonomy

- ✓ Keyboard shortcuts
- ✓ Ability to customize behavior
- ✓ Controls optimised
- ✓ for displays from 6" to 33"

Efficiency

- ✓ Keyboard shortcuts
- ✓ Desktop usage
- ✓ High-quality help
- ✓ Private notes
- ✓ Pockets and tags

Experience

- ✓ Fine-tuned graphics
- ✓ Light and dark design



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www.aymine.com
Supporting accurate work



User documentation
(cs, en, uk)



Technical
documentation

