

Exercise sheet 6

Study the standard DO-178B [1], section 12.2, and the draft of ISO 26262, part 8 [2], section 11, describing the qualification of software tools in the avionics and the automotive industry, respectively. Write an essay discussing the following questions:

- a) What are the differences in the qualification of software tools when comparing the two standards?
- b) What are the differences between the qualification of software development tools and the qualification of software verification tools?

References

- [1] “DO-178B: Software Considerations in Airborne Systems and Equipment Certification,” Radio Technical Commission for Aeronautics (RTCA), December 1992.
- [2] “Draft ISO 26262: Road vehicles – Functional safety – Part 8: Supporting processes,” International Organization for Standardization (ISO), 2009.