

Exercise 2

Comparison of life cycle models

Consider the Systems Development Life Cycle (SDLC) as described in Wikipedia [1] and compare it to the life cycle description for safety-critical systems, as specified in IEC 61508-1 [2].

1. Identify how the SDLC described in [1] is embedded into the life cycle [2]. Are there activities in [1] which do not fit into [2]?
2. For each activity of [2] which is not identified in [1]
 - give a reason why it only occurs in [2],
 - give an example of a general purpose system which is not safety-critical, but where the system development could benefit from this activity only occurring in [2].

References

- [1] Wikipedia, The Free Encyclopedia, “Systems Development Life Cycle,” 2010, accessed 11-Nov-2010. [Online]. Available: http://en.wikipedia.org/wiki/Systems_Development_Life_Cycle
- [2] DIN Deutsches Institut für Normung e.V. und VDE Verband der Elektrotechnik Elektronik Informationstechnik e.V., “EN 61508-1 Funktionale Sicherheit sicherheitsbezogener elektrischer / elektronischer / programmierbarer elektronischer Systeme, Teil 1: Allgemeine Anforderungen.”

Submit your essay to the repository and hand in a printout in the session at thursday, 25th of November.