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these supplements address frequently asked questions about software certification provide guidance on tool qualification requirements and illustrate the modifications recommended to do 178c when using model based software design object oriented programming and formal methods

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do 178c classifies software into five levels of criticality based on whether atypical software behavior could cause or contribute to the failure of a system function the table below shows the relationship between the failure condition category and the structural coverage objective as defined by do 178c

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similar to improving human health most people know that improved diet exercise sleep and stress relief are all best practices for software the obvious good practices include utilizing defect prevention experienced developers automated testing and fewer changes

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appendix a background of do 178 ed 12 document annex a process objectives and outputs by software level table a 1 software planning process table a 2 software development processes table a 3 verification of outputs of software requirements process table a 4 verification of outputs of software design process

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