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assessment includes the  
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failure modes, and mitigations, for  
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Figure 4: Safety Critical Software  
Development Pyramid Successful  
creation of safety critical software is  
dependent on many factors. Figure 4  
illustrates there is a hierarchy of

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constraint necessary within the development organization. The top of the pyramid represents the culture of a safety critical environment.

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Principles of Safety Critical Software  
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allocated to processors and tasks. (b)

The description of the software  
architecture defining the software

Safety-Critical Software Development:  
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Software engineering for safety-critical  
systems. Software engineering for

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safety-critical systems is particularly difficult. There are three aspects which can be applied to aid the engineering software for life-critical systems. First is process engineering and management. Secondly, selecting the appropriate tools and environment for the system.

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software development program,  
software cannot be allowed to function  
independently of the total effort.

## Software system safety - Wikipedia

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