



## Newsletter - December 2018

### Upcoming Courses

- MIL-STD-882E System Safety  
[www.hcrq.com/mil-std-882e-system-safety-course.html](http://www.hcrq.com/mil-std-882e-system-safety-course.html)  
December 4-6  
(6 people attending on line; we are still hearing from people who are interested in this regard)
- Live On-line Software Safety To Be Taught to an Australian Organization
- Pending 2019 Courses  
[www.hcrq.com/scheduled-courses.html](http://www.hcrq.com/scheduled-courses.html)

Testimonials: [www.hcrq.com/testimonials---courseware.html](http://www.hcrq.com/testimonials---courseware.html)

Previous course attendees:  
[www.hcrq.com/previous-course-attendees.html](http://www.hcrq.com/previous-course-attendees.html)

Live on-line courses pending with clients from:

- U.S.,
- Canada,
- Turkey

### Underscoring the Need for Training, Certification

Many of us continue to see a dire need for training and certification of system safety engineers.

Expertise and knowledge varies widely. For instance, there is inconsistent understanding and use of terms and techniques (e.g., hazard, failure mode, safety-critical, safety-related, vital, software safety, common cause, common mode, FMEA). There can be a huge variance in the knowledge and expertise of software safety engineers. In addition, the number of years of experience can be misleading.

We came across an example where one organization clearly did not have an appreciation for what they were specifying. They were calling up far too many safety-related standards and guidelines. Not only that but some conflicted with each other (e.g., MIL-STD-882 and SAE ARP4761).

Compliance would clearly be challenging from the get-go and often would not be practical.

We have seen many situations requiring mapping levels to each other (e.g., SILs to DALs) which is problematic.

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## **Newsletter - December 2018 (cont'd)**

### **Fault Tree Analysis Acceptance/Rejection Criteria**



There are 28 attributes to look for:

- 16 mandatory,
- 5 highly recommended, and
- 7 desirable.

[www.hcrq.com/fault-tree-analyses---when-to-accept-when-to-reject.html](http://www.hcrq.com/fault-tree-analyses---when-to-accept-when-to-reject.html)

**This list has been requested by people from FAA, FRA, U.S. Army, U.S. Air Force, NASA, MOD, prime contractors, and subcontractors.**

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