Reliability Academy

Accelerated Reliability Testing

Date: 2021 Venue: webinar

The goal of the course is to enable the designers and test engineers to conduct accelerated reliability tests (AST, ALT/ HALT) in practice. The methods with examples are presented and can be used in product design projects. Previous knowledge needed: basics of statistics. Bring a scientific calculator with you.

Accelerated Reliability Testing	
9:00	WELCOME and introduction
9:05	Introduction: Traditional Lifetime Testing and Reliability Testing Today Traditional: Reliability determination tests and Reliability development tests (accelerated tests) Problems with traditional reliability testing
	2. Design for Reliability, Role of Testing - Managing product reliability - Reliability methods supporting the tests: Risk Analysis and FMECA - Scheduling of testing in product development
	3. Methods of Accelerated Life Testing (ALT) - Test time compression with elevated stresses - Failure models and failure distributions, life time determination
11:30	LUNCH
12:00	4. Techniques of Accelerated Stress Testing (AST) - Elevated stresses in revealing product weak links - Failure mechanisms as sources of failure modes
	5. Conditioning in AST - Test cycle planning to reveal relevant failure modes - Selecting proper stresses, system vs. subsystem testing, functional tests 6. Implementation of AST - Effective approaches to stress testing - Failure analyses, failure database and Lessons Learned
16:00	CONCLUSIONS, discussion

Contact/ Mr.Arto Salminen, Tech.Lic., +358-40-505 8885 Lecturers: Mr.Antti Lyytikäinen, M.Sc., +358-400-800 022

email: info@alsafety.com

Price: eur/ team. Included: Course materials in pdf.