

**CRE Primer, Fourth Edition Changes  
October, 2009**

The 2009 CRE Primer was expanded from 754 to 802 pages. There was an approximate 17% change in CRE BOK content. Questions were modernized and allocated to the new BOK.

**Major Content Additions:** Added lean and six sigma coverage, warranty management, supplier reliability, drivers of reliability, types of risk, systems engineering, Poisson process models, process capability studies, Kaplan - Meier test, common mode failure analysis, fault tolerance, reliability optimization, design for X, COTS software, parts obsolescence management, physics of failure models, dynamic reliability, margin tests, sample size of 1, non-destructive evaluation, spare parts forecasting, univariate versus multivariate data, and failure analysis methods.

**Major Content Deletions:** Dropped were gamma, beta, and geometric distributions, project management, reliability training programs, surface response, mixture, and composite designs and Bayesian techniques.

**Other Changes:** FTA/STA and FMEA/FMECA were consolidated into one location not two.