

Proposer: Dr Emma Sparks, DESM, [e.sparks@cranfield.ac.uk](mailto:e.sparks@cranfield.ac.uk), 01793 314570

Title:

Systems Engineering Competency Assessment Framework Development

Abstract:

Assessment of systems engineering competence and its link to education and training is a current hot topic within the community. Initial work has been carried out within the Centre for Systems Engineering in conjunction with the Ministry of Defence looking at the current competency profile of a sample of people within DE&S. Output from this work highlighted wider research and development issues associated with the competency framework itself. Originally created by INCOSE the assessment framework is used within the public and private sector to identify professional development needs of systems engineers as well as providing formal recognition of their competence. It is intended that research will look at the mapping of the current competency statements between each level of the hierarchy identifying inconsistencies and suggesting improvements. This will lead to a positional paper to be presented to the systems engineering community for comment.

Pre-Requisites/ Required skill set/ background knowledge:

An understanding of systems engineering as a domain would be beneficial. Otherwise some form of engineering or science background would be appropriate. Ability to analyse data and interpret meaning is essential.