

Human Systems Integration Framework (HSIF)

PROGRAM DESCRIPTION

The Human Systems Integration Framework (HSIF) is an ongoing project to define and map HSI activities to existing system engineering and acquisition processes.

HSI CHALLENGE

Individually, HSI and system engineering disciplines each have their established set of processes; however, one of the challenges facing the acquisition community today is the effective assimilation of the two. To maximize the HSI contribution, PSE developed the HSI Framework to provide specific guidance on how to integrate HSI processes, products, and tools into the Defense Acquisition System.

APPROACH

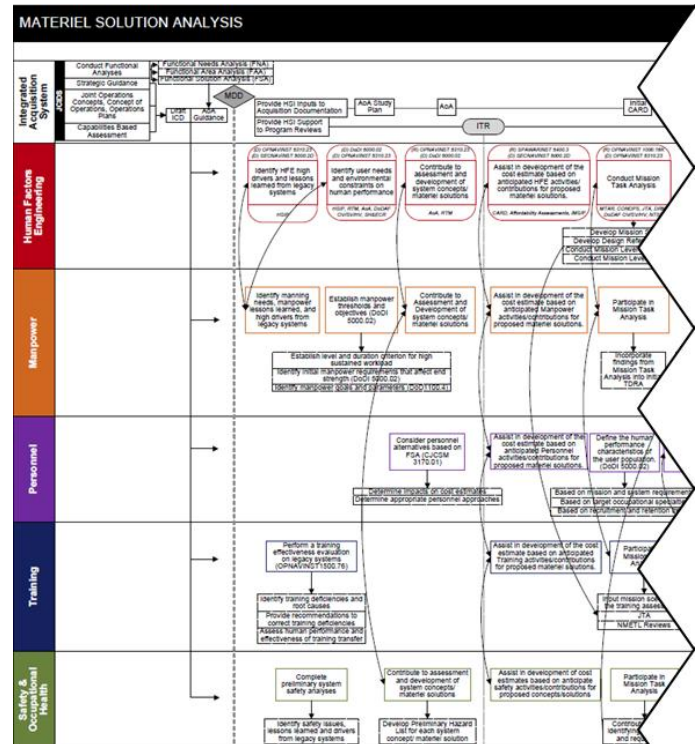
Using Department of Defense guidance and policy documents as references, activities for all HSI domains were defined and mapped to each acquisition phase. The sequence and timing of the HSI activities were also coordinated with the Milestone and System Engineering Technical Review (SETR) schedules.

SOLUTION

Each phase of the systems engineering acquisition lifecycle is represented by its own diagram. The top row shows the milestones and integrated acquisition events and documents. Per phase, each HSI domain (Human Factors Engineering, Manpower, Personnel, Training, Survivability, Habitability, and Environment Safety and Occupational Health) is a separate row that demonstrates the domain activities.

BENEFITS

The HSIF makes HSI activities explicit and facilitates alignment of tasks and products among HSI practitioners, system engineers, and program managers. It supports the consistent application of HSI processes, products, and tools within the acquisition community to mitigate human performance shortfalls and maximize system effectiveness. The HSIF can also be used to help identify HSI activity gaps relative to other acquisition and engineering activities which can be communicated to influence future HSI policy and requirements. It provides a coordinating mechanism, aligned with the Acquisition Lifecycle, to support the Program Offices, HSI Technical Authority SETR Events, system engineering, and HSI practitioners.



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