

Jacobs' Team Experience – Carlow International, Inc.

Human Systems Integration Support for Littoral Combat Ship (LCS) Acquisition

Carlow International is currently supporting PEO(S) in the application of Human System Integration (HSI) to Littoral Combat Ship (LCS) Acquisition. They prepared the HSI Plan, Total Ship Training Architecture, HSI Risk Identification document, and the technology roadmap to proceed from Flight 0 to Flight 1. Further, Carlow conducted a top down requirements analysis for Flight 0 ships, identified task performance requirements, assessed workloads and manpower requirements, and identified HSI metrics using the Carlow Ship-SHAPE suite of tools. They participated on the Total Ship System Engineering and the HSI Focus teams of the LCS Mission Systems and Ship Integration Team (MSSIT). Carlow also determined HSI test and evaluation requirements for LCS and supported the LCS IPT and NAVSEA 03 program review of LCS in the area of human factors engineering. Finally, Carlow developed requirements for human-machine interface design, development, test and evaluation for all mission modules as well as for the Seaframe.

Carlow serves on the LCS HSI Team coordinating the efforts of HSI organizations at NSWCCD, NSWCCD, NSWCCSS, and NUWC. They are serving on the LCS HSI IPT as the lead for human factors engineering. Carlow successfully supported the LCS program in an in-depth review conducted by NAVSEA 03.