### Human Factors in Defense

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#### **Abstract**

The defense industry has recognized the importance of human factors for system design. Some processes and procedures are available to address these needs. In this paper we provide a brief overview of ongoing *Human Factors* or *Human Systems Integration* activities in Defense.

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August 31, 2020 status: preliminary draft

version: 0.1

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# Human Systems Integration DoD Acquisition

Design features **Equips Warfighters Training** that minimize with the Knowledge human error and Skills & Abilities reduce risk of injury (KSAs) needed **System Safety Manpower** Addresses all aspects **Occupational Environment** of defining requirements **Personnel** Health for personnel as well as obtaining and retaining Retention Ensures that all those individuals aspects of the Recruiting system are designed with **Human Factors** full consideration Ensures that all Personnel of the inherent aspects of the Survivability capabilities and living and working **Habitability** limitations of the Provides that the warfighter spaces are warfighter will have all personal designed with the protection needed warfighter in mind

Human Systems Integration in DoD Acquisition by Ms. Nancy Dolan CNO N125 https://acc.dau.mil/GetAttachment.aspx?id=25755&pname=file&aid=3181&lang=en-US



# Human Engineering from Naval Perspective

- 1. Mission Analysis
- 2. Requirements Analysis
- 3. Function Analysis
- 4. Function Allocation
- 5. Task Design and Analysis
- 6. Human Interface and Team Development
- 7. Performance, Workload, and Training Level Estimation
- 8. User and Requirements Reviews

from ONR (Office of Naval Research)/SC-21 Manning Affordability Initiative www.hf.faa.gov/docs/508/docs/Human\_System\_Engineering\_(NSWC).pdf



## **Human Views for MODAF**

**HV-A: Personnel Availability** 

HV-B: Quality Objectives and Metrics

**HV-C: Human Interaction Structure** 

**HV-D: Organisation** 

**HV-E: Human Functions and Tasks** 

**HV-F:** Roles and Competencies

HV-G: Dynamic Drivers of Human Behaviour

from The Human View Handbook for MODAF www.hfidtc.com/MoDAF/HV Handbook First Issue.pdf

