



Human Factors Integration (HFI) Capability Profile

Quorum Logistic Support Limited (Quorum) Consultants have obtained academic qualifications from Cranfield University in Human Factors Integration (HFI) also generically known as Ergonomics. Quorum has working knowledge of many of the methods, tools and techniques considered most appropriate by the Ministry of Defence (MoD).

HFI is a systemic process for identifying, tracking and resolving human related issues ensuring a balanced development of both technology and human aspects of capability. It is a key factor in the drive to improve operational capability and equipment cost effectiveness.

Def Stan 00 – 250 Human Factors (HF) for Designers of Systems defines Human Factors as a “Scientific and engineering discipline that concerns itself with human capabilities, human limitation, human interaction and environments, and the application of this knowledge to the design of products, processes and systems”.

HFI covers seven areas or domains as follows:

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| ■ Manpower | ■ System Safety |
| ■ Personnel | ■ Health Hazards |
| ■ Training | ■ Organisational and Social |
| ■ HF Engineering | |

These seven domains are grouped because of their interrelationship, within these domains HF covers many areas such as anthropology, cognitive requirements, physical needs, occupational health, training needs analysis and other areas associated with HF.

HFI Activities

Provided analysis and guidance on vehicles and equipment supplied to the MoD examining manpower requirements to operate, maintain, and sustain the equipment throughout all phases of the system's life covering 5%ile to 95%ile personnel's physical requirements, identification of training gaps and future training requirements, optimising the human-machine performance under operational conditions including System Safety and Health Hazards of any dangers and hazards during operations or catastrophic component failures within the system. These activities have been carried out on the following projects:

- MAN Truck and Bus UK Ltd vehicles
- Andover Trailers Ltd recovery trailers
- EKA Ltd recovery equipment
- Bowman Radio fits on MoD vehicles
- Specialist JCB Excavators Ltd equipment

Quorum offers a range of other services such as Integrated Logistic Support (ILS), Reliability and Maintainability (R&M), Safety Analysis, Risk Analysis, and Project Management.