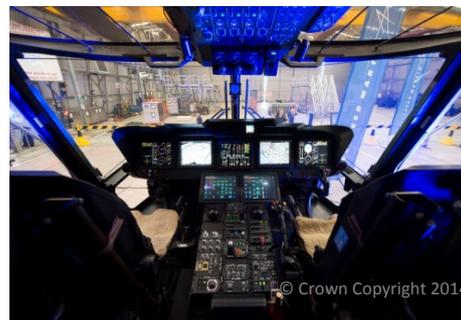




What is it?

Human Factors (HF), also known as Ergonomics, is a branch of engineering and human sciences that aims to optimise human performance in systems. Human Factors applies data, knowledge and structured methodologies to help design human-machine systems right the first time, as well as robust Human Reliability Assessment tools to de-risk the system from the consequences of human error. HF also incorporates Human Factors Integration (HFI), which is a management process to identify, track and resolve people-related considerations to ensure the balanced development of technological and human aspects of capability.



Why is it important?



Every system has a level of human interaction, whether it is as an operator, maintainer, designer, programmer or developer of a system. People exist within systems because they are more intelligent, creative, flexible and resourceful than machines. But just as machines are susceptible to failure, humans are also fallible and can contribute to system failures, whether accidentally or intentionally. Human Factors applies the combined knowledge of psychology, physiology and engineering knowledge to understand how humans interact with complex industrial systems, whether in normal, maintenance or emergency operations. Our aim is to improve safety, reduce risk and optimise total systems performance.

What we do

CRA is a 'People in Systems' champion. The human is at the core of all of our work. We focus on the human contribution to systems performance and specialise in the identification, quantification and reduction of error. Each of our consultants has trained in Human Factors, and we also have a specialist team of qualified Human Factors practitioners with extensive experience in the Defence, Nuclear, Finance and Transport sectors. We are also one of the leaders in the field of Human Reliability Assessment.



Our capability statements describe each of our Human Factors services.



CRA firmly believes that the effective provision of such services provides our valuable clients with real economic benefits through increased system efficiency along with reduced personal and corporate risk.

Our consultants are registered by the Chartered Institute of Ergonomics and Human Factors (CIEHF).