

# DESIGN

## LEARNING OUTCOMES

-  Produce a proportionate risk-informed scope of work and strategy to integrate the human factors aspects into the design.
-  Evaluate and justify the appropriate allocation of function accounting for human attributes and identify the HF requirements necessary to deliver it.
-  Evaluate and justify the adequacy of the human factors aspects of the design to meet requirements and relevant good practice.
-  Develop and/or specify the design of tasks, equipment, workspaces and environments, taking account of the context, task factors, human capabilities and limitations to achieve the requirements.
-  Justify through testing and validation that the human factors aspects of the design as built meet the relevant requirements and the design intent.

## UNIT BREAKDOWN

Unit	Foundation Certificate (L1)	Higher Certificate (L2)	Advanced Certificate (L3)
An Introduction to Human Factors in Nuclear	✓	✓	✓
Introduction to Human Physical Attributes	✓	✓	✓
Introduction to Psychology	✓	✓	✓
An Introduction to Performance Shaping Factors	✓	✓	✓
Introduction to Human Factors Tools and Techniques	✓	✓	✓
Foundations of Nuclear Safety Management and the Human Factors Contribution	✓	✓	✓
Human Factors Integration		✓	✓
Human Machine Interface Design		✓	✓
Human Factors in Control System Design		✓	✓
Environmental and Physiological Factors		✓	✓
Human Factors Design Analysis Methods			✓
Organisational Factors			✓
Evaluation and Assessment Tools and Methods			✓
Organisation Interface Management and Configuration Control			✓
Substantiation Judgements			✓