Assignment Brief – Assignment A2

Module Title: The Psychology of Human Factors (Level 6)
Module Code: G107969

Assignment Title: The effects of manipulating cognitive workload level on errors during task performance

Assignment Type and description: In this technical report, you are required to undertake a piece of group research and design and run an experiment to investigate the effects of cognitive overload and/or underload on human errors whilst performing a primary task(s) (e.g., monitoring aircraft movements, driving hazard perception – TBC). This will include data collection from participants performing one or more primary tasks, statistical analysis of the collated data, and the independent write up of a technical report inclusive of an executive summary, recommendations and practical guidelines, and other relevant report sections. More details are provided below in the instructions section.

Assignment No: Assignment A2 (out of two assessments for the full module)

Learning outcomes assessed: Addressing Module Learning Outcomes:

1. Distinguish between and critically evaluate both historical and contemporary movements within the area of Human Factors
2. Demonstrate their knowledge of principles, theory, and empirical research in the area of Human Factors through critical evaluation of core areas covered within the module
3. Critically evaluate how Human Factors research ‘can inform’ and is ‘informed by’ theoretical, laboratory, and applied research in other areas of psychology
4. Critically evaluate a variety of Human Factors methods, techniques, and paradigms
5. Examine everyday and workplace issues that could be improved through solutions informed by Human Factors research
6. Appreciate the galloping developments in computer-based technological devices and the ever