15. Evaluate ergonomic aspects of industrial logistics

Functional Area: Op&Log/QA

Assessment criteria	**Knowledge**
LO15a.1. Identifies and designs plans to incorporate ergonomic aspects into industrial processes. • Follow and maintain procedures to be in line with HMI general requirements • Ensure dimensional accuracy of assembly by using different instruments/gauges/measuring tools • Set up workplace/ assembly location with due consideration to operational process and HMI and safety requirements • Demonstrate possible solutions and agree tasks within a team • Mount the work and tool holding devices with required alignment and check for their functional usage to perform machining operations	• Knowledge of Principles and theories relevant to mechanical, electrical, electronic engineering, and manufacturing technologies. • Know the principles of HMI design and development within the field of mechatronics engineering and its disciplines • Knowledge of material (physical, electromagnetic characteristic…)
	Skills
	• Judge engineering/manufacturing decisions considering balanced costs, safety, quality, reliability vs HMI aspects • Collaborate effectively within multidisciplinary teams • Identify, analyse, synthesize and act on information from a range of sources, verbal, written and in electronic format • Understand functional application of different levers, stoppers, adjustment etc. • Understand anatomy of robots/cobots and their interactions with human operators
	Transferable skills
	• Understand descriptions, specifications, manuals and other info typical of the profession in English • Ability to communicate effectively, orally and in writing with “engineering” community and with “society” (extrapolating concepts for “non-experts) through an abstraction approach

	• Ability to submit and discuss presentations on practical cases • Appreciate limits and future developments of human-robotics interaction, from social/labour related point of view