## Appendix A: Specification of Requirements

**Ref: PROC AB RFQ/1222 Milling Machines Buxton & Leek College**

**Introduction:**

The University of Derby is equipping out the existing engineering workshops at their Further Education site, Leek Campus, Leek, ST13 6DP. There is a requirement at the centre for both machinery, teaching equipment and associated items enabling practical delivery of mechanical and mechatronics techniques. Appendix- B deals with machinery that is to be offered for part ex. towards the machinery to be purchased, namely vertical milling machines, pillar drills and 4th Axis for Haas vertical machining centre.

**Scope:**

The University needs to equip the machine and fitting workshops to upscale its capacity to accommodate classes of seventeen (17) students or more but stay within the realms of safe practices. This will require the provision of more vertical milling machines, teaching modules / equipment and tooling to carry out the process of teaching the practical skills required. In addition, it should provide a base of skill and understanding for all those students undergoing the programs of study involved. Provision to upgrade/improve any guarding, safety interlocks and state of equipment must also be taken into consideration and this project must be always mindful of it.

**Required Outcomes:**

Supply 4 x 1000VS Turret Milling Machines AND guarding of machines and equipment for a machine and fitting workshops. All items provided must be compliant with the provision and use of work equipment regulations (PUWER) and all necessary UK health and safety standards.

**Required Outputs (performance specifications):**

* Transport and offload all associated items to the point of end use.
* Commissioning and safety inspection.
* Removal of all waste / packaging from site.
* Supply documentation, user manuals, support and training provided.
* Provide suitable guarding and interlocks, where necessary even if this involves an upgrade.
* Overall condition of the machine must be safe to use and of suitable physical/electrical standard to last long term, especially if not provided as new equipment.

**Suppliers**

Due to the inherent safety requirements, specifications and longevity required for the proposed upgrade, the machinery must be provided by known, reputable and trusted suppliers of their specialism. This also applies to the equipment, guarding and accessories provided by them.

**Performance Indicators:**

Compliant with the Provision and Use of Work Equipment Regulations (PUWER) and all necessary UK BSI/European Health and Safety Standards, mechanically and electrically where needed. Be fit for purpose and in good condition.

**Whole of life support:**

Machine Commissioning, set up, run, and test machines with basic familiarisation. Warranty for parts and labour.

Annual service for electrically powered machines.

**Training:**

Familiarisation training in use of machine controls, health & safety awareness, and maintenance requirements.

**Implementation timetable:**

All the above are required to be installed and running from 1st July 2024 and before 26th August 2024.