

## APPLICATION ENGINEER Apprentice Job Description

### ○ Applications

- The broad purpose of a machine tool application engineer is to support new & existing Mazak customers in set up, optimisation and operation of their CNC machine tool. Supporting customers across all manufacturing sectors including, aerospace, defence, medical, oil & gas, energy, and high performance automotive.
- As part of the role, machine tool application engineers will provide technical support & expertise for all areas of the engineering and manufacturing function. This begins with presale support involving a comprehensive analysis of machine requirements and includes, process definition and development, machine selection and time estimates. Following the sale of a machine tool, support is provided, from onsite application support through to project management of a completely bespoke machining solution (including machine tool, automation, measurement solutions, CAD/CAM and process training).
- In their daily work, a machine tool application engineer will liaise with customers via email, in person and telephone to provide technical support. They will also program, set up and operate various CNC machine tools including lathe, machining centre, 5 axes multitasking and laser technology. Another aspect of the role requires the engineer to deliver Mazatrol program training to new users in the Mazak training academy. They will also interact with various stakeholders both internal & external suppliers. As a customer facing role the application engineer works closely with the sales team to provide technical support, machine tool demonstrations and engineering solutions to customers requirements. Typically reporting to the applications manager, they should be able to work with minimal supervision.

### Year One

During the first year of your apprenticeship, your role will be as outlined below: 2

- You will spend four days at WGTA covering units including or like the following:
  - Hand Fitting
  - Turning
  - 3D Computer Aided Design
  - CNC Machining
  - Milling
- One day release at college covering the theoretical aspects of the above

## Year Two

During the second year of your apprenticeship, your role will be as outlined below:

- ▣ You will begin factory rotations which cover all or some of the following CNC areas:
  - o Bay 9 (milling)
  - o E-Towers & FH Line (milling)
  - o Jig Boring (milling)
  - o Turning
  - o Grinding
  - o Quality Inspection (Appreciation)
  - o Assembly and Spindles (Appreciations)
- You will be expected to gather evidence of your time in each of the above areas through the completion of logbook entries.
- One day release at college covering the theoretical aspects of the above
- 

## Year Three / Four

During the final phase of your apprenticeship, you will specialise in the **Applications team**.

You will be expected to gather evidence of your competence in the selected role before being considered ready to complete your apprenticeship.

**Entry Requirements** • It would be considered that the academic level of the applicant would be of a higher level and preferably post A level and academically strong – who will go onto HNC minimum and possibly a degree.