T Level: Engineering, Manufacturing, Processing and Control

Occupational Specialism: Production Technologies

Production - Fitting and assembly technologies Production - Machining and Toolmaking Technologies

| Role Title | Working | To be agreed | | |
|--|-----------------|---------------|--|--|
| | Pattern | between the | | |
| | | provider and | | |
| | | employer | | |
| Production Trainage (Production Technologies) | Duration | 215 hours | | |
| | Duration | 515110015 | | |
| Objective(s) | | | | |
| | | | | |
| To assist the Production team in collecting data for all/part of a production | | | | |
| operation to identify improvements that could be made to product quality and | | | | |
| process productivity | | | | |
| | | | | |
| Typical Activities | | | | |
| 1. Under supervision, gather and analyse inforr | nation/data rel | ated to the | | |
| production operation/process/method, on a regular basis by | | | | |
| • Assessing risk | | | | |
| \circ Agreeing a brief | | | | |
| Working as part of a team reviewing the current production process and | | | | |
| any standard operating procedures | | | | |
| \sim Analysing the production process to identify quality issues or potential | | | | |
| nrohlems with machinery/equinment/materials | | | | |
| Reviewing the brief | | | | |
| | | | | |
| 2 Under supervision undertake the brief on a r | eqular basis b | ١V | | |
| Checking the location and availability of resources required | | | | |
| Identifying Health and Safety considerations including PPE | | | | |
| Droviding a plan of action, accombling recourses required. | | | | |
| Collecting and collecting data | | | | |
| | | | | |
| 3 Assist the Production team, present and revi | ow data/findin | as and make | | |
| 5. Assist the Froduction team, present and review data/indings and make | | | | |
| Observations with respect to quality and productivity, on a regular basis by | | | | |
| Completing a debrief which outlines findings/observations | | | | |
| Restoring resources and work areas | | | | |
| vvorking as part of a team, evaluating | and reviewing |) | | |
| findings/observations and presenting | any improvem | ents | | |
| Learning goals | | то | | |
| | | Reference | | |
| On the placement the student will need to furthe | r develop and | Insert | | |
| hone through activity 1 | | corresponding | | |
| | | roforonoo | | |
| | | reierence | | |
| 1 | | | | |

| Employability skills | from the TQ |
|---|-------------|
| Self-managing: monitoring, reflecting and inviting feedbac | k content] |
| on own performance, managing time, setting personal | |
| goals, referring to others for advice | |
| Communicating: active listening, use of visual, oral and | |
| written methods, engaging an audience, sharing, building | |
| rapport, adapting style and tone | |
| Decision making: clarifying logical choices, identifying like | ly |
| impact, using evidence and advice, justifying, | |
| substantiating, concluding | |
| Analysing: identifying common features, organising into | |
| types, discerning patterns, deconstructing, classifying, | |
| ordering | |
| Investigating: identifying sources, developing search | |
| criteria/queries, interrogating data, designing and carrying | |
| out tests | |
| Working in a team: working with others with different skills | 3, |
| expertise and experience to accomplish a task or goal | |
| Integrating with a team: settling in, communicating | |
| Developing leadership: setting direction, taking | |
| responsibility, modelling correct, and appropriate | |
| behaviours | |
| | |
| Technical skills | |
| Collecting/analysing existing data from the production | |
| process/method | |
| Agreeing a brief setting out timescales, resources and data | ta |
| collection methods | |
| Identifying potential risks | |
| | |
| On the placement the student will need to further develop and | |
| hone through activity 2: | |
| | |
| Employability skills | |
| Self-managing: monitoring, reflecting and inviting reedback | Ж |
| on own performance, managing time, setting personal | |
| goals, referring to others for advice | |
| Decision making: clarifying logical choices, identifying like | ly |
| impact, using evidence and advice, justifying, | |
| substantiating, concluding | |
| Planning: identifying discrete steps, estimating time and | |
| resources, prioritising, coordinating, sequencing activity | |
| | |
| lechnical skills | |
| Identifying components, tools, equipment, resources and | |
| preparatory checks/procedures required | |
| Identifying health and safety requirements | |

| Under supervision, collecting agreed data on the production process/method | | |
|--|--|--|
| On the placement the student will need to further develop and hone through activity 3: | | |
| Employability skills Decision making: clarifying logical choices, identifying likely impact, using evidence and advice, justifying, substantiating, concluding Physical dexterity: precise and controlled movement | | |
| Physical dextently, precise and controlled movement, agility, co-ordination, delicacy, appropriate application of force | | |
| Recording: transcribing, noting, capturing, saving, storing Evaluating: considering and appraising process and evidence, making recommendations Observing: situational awareness, monitoring | | |
| Technical skills Under supervision, presenting a debrief Restoring resources and work areas Evaluating and reviewing process and outcome and identifying any potential opportunities for improvement or cost saving | | |
| Minimum starting requirements | | |
| Attendance at induction day | | |
| Basic Health and Safety Training | | |
| Issued with mandatory PPE | | |
| Suggested prior learning | | |
| Knowledge Key principles, techniques and methodologies relevant to engineering in the manufacturing, processing and control sector Understanding of the roles, functions and operations of Manufacturing, Processing and Control and how they relate to the engineering sector Basic knowledge of assembly line production Understanding of how manufacturing must meet the needs of clients | | |
| Typical workplace behaviours needed for role, including: Professionalism | | |

- o Punctuality
- Ability to work independently and to take responsibility
- Initiative
- Willingness to learn
- Openness and honesty

- A thorough and organised approach Team participation