

Mr J Clark  
Product & Services Manager  
EAL  
3365 Century Way  
Thorp Park  
Leeds  
LS15 8ZB

8<sup>th</sup> June 2016

**Dear Mr Clark**

As the representative of the Machinist employer led Trailblazer group SME's, please accept this letter as our support for the development of the following qualification:

- **EAL Level 2 Diploma in Machining (Foundation Knowledge)**

The group has worked with leading employers in the Advanced Manufacturing sectors along with Professional Engineering Institutions to design and develop the new Advanced Manufacturing Engineering Trailblazer Standards. The new standards will shape the future of apprenticeships and meet the needs of large companies and SMEs as well as providing a range of flexible pathways into work and careers in our sector for young people.

The employers supporting the Advanced Manufacturing Engineering Standards are:

- Rolls Royce
- BAE Systems
- GKN Aerospace
- GTA England
- Silicom Ltd (SME)
- AugustaWestland Ltd
- Paradigm Precision (SME)
- Co-Eng Ltd (SME)
- AMRC Training Centre
- Quinton Major Limited (SME)

As such, the Machinist group have reviewed the existing qualification and their associated units in order to identify the most appropriate selection of units for this new qualification to provide comparability. Based upon our experience, we believe these units are fit for purpose and will provide learners with an appropriate balance of knowledge, skills and understanding across the Advanced Manufacturing Engineering Standards that include this qualification.

As per the rule of combination listed in **Annex A**, we have assigned the **Total Qualification Time** on the basis of one tenth of the established credit value.

In addition, the unit components will be subject to further review by the Advanced Manufacturing Engineering employer Trailblazer groups in **August 2018**.

Our support recognises this qualification:

- Develops and confirms specialist knowledge, skills and understanding that are relevant to an occupation in the sector, to a standard that can be reasonably expected of learners in full time education and employment.
- Provides students with suitable progression into a related industry recognised qualifications, advancement from related industry recognised qualifications and subsequent entry into an occupation in the engineering sector.
- Country or countries offered in i.e. England
- Main and sub-purposes i.e. B2 Develop knowledge and/or skills in a subject area
- Age ranges the qualification is offered to 16-18, 18+, 19+
- Subject area of qualification i.e. 4.1 Engineering
- Operational start date: July 2016

We are happy to support the development of the qualification and for it to be submitted to Ofqual for accreditation to the National Qualifications Framework (NQF).

Yours sincerely

A handwritten signature in black ink, appearing to read 'Mark Maudsley', enclosed within a large, loopy oval shape.

Mark Maudsley  
CEO GTA England, Chair SME Group  
[Mark.maudsley@gtaengland.co.uk](mailto:Mark.maudsley@gtaengland.co.uk) 07837832996

## Annex A:

### Level 2 Diploma in Advanced Manufacturing and Engineering (Foundation Competence)

#### Relevant Trailblazer Standards. (Others to be added as required)

Level 3 Machining – Advanced Manufacturing Engineering (Starts 2016)

#### Mandatory Unit

		<b>Credit</b>	<b>GL</b>
Unit 1	Working in an Engineering Environment	6	60
Unit 2	Engineering Techniques - AME	6	60
Unit 3	Engineering mathematics and science principles	6	60
Unit 4	Fitting and Assembly Techniques - AME	7	70
Unit 5	Business Improvement Techniques	7	70

The apprentice must complete all the mandatory unit plus two optional units. The two optional units are a minimum requirement. Therefore employers may require their Apprentices to achieve more units in order to meet their specific business needs

		<b>Credit</b>	<b>GL</b>
Unit 6	Principles of Turning & Milling	8	80
Unit 7	Manual Turning Techniques	7	70
Unit 8	Manual Milling Techniques	7	70
Unit 9	Grinding Techniques - AME	7	70
Unit 10	Principles of Computer Numerical Control (CNC) Machining /Fabrication	8	80
Unit 11	Computer Numerical Control (CNC) Turning Techniques	7	70
Unit 12	Computer Numerical Control (CNC) Milling Techniques	7	70
Unit 13	Computer Aided Drawing (CAD)	7	70

#### Optional unit selection requirements and barred combinations:

If unit 6 is chosen within the optional units then units 7 or 8 cannot be selected

If either unit 7 or unit 8 are chosen within the optional units then unit 6 cannot be selected

If unit 10 is chosen within the optional units then units 11 and 12 cannot be selected

If either unit 11 or unit 12 are chosen within the optional units then unit 10 cannot be selected