



Apprenticeship Standards in

Engineering and Manufacturing

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that work



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Engineering and Manufacturing



Pearson is here to help you with a comprehensive range of apprenticeship products and services to support your replacement SASE framework apprenticeship to standards provision in Engineering and Manufacturing from Level 2 to Level 7.

We can provide a range of options for your apprenticeship requirements after the SASE framework switch off on 31st July 2020.

We have developed a new suite of Level 2 and Level 3 qualifications (e.g. Pearson BTEC Level 3 Diploma in Advanced Manufacturing Engineering (Development Technical Knowledge)) for many of our apprenticeship standards. These new qualifications have been developed by employers and are updated annually to ensure that they remain current and meet the specific needs of employers and the changing requirements of technology and processes.



SASE FRAMEWORKS TO STANDARDS⁺

View all the currently active SASE apprenticeship frameworks in Engineering & Manufacturing and their corresponding apprenticeship standards.

SASE Apprenticeship Framework	Pathway & Occupation	New Apprenticeship Standard
Level 2 Composites Engineering	Composites Engineering	ST0537 – Engineering Operative
Level 3 Composites Engineering	Composites Engineering	ST0094 – Composites Technician
Level 2 Engineering Manufacture	Aerospace	ST0014 – Aviation Maintenance Mechanic (Military) ST0537 – Engineering Operative
	Marine (Yacht, Boat Building, Maintenance & Repair)	ST0276 – Marine Electrical/Mechanical Mechanic ST0537 – Engineering Operative
	Mechanical Manufacturing Engineering	ST0537 – Engineering Operative
	Engineering Maintenance and Installation	ST0537 – Engineering Operative
	Fabrication and Welding	ST0537 – Engineering Operative
	Materials Processing and Finishing	ST0537 – Engineering Operative
	Engineering Technical Support	ST0537 – Engineering Operative
Level 3 Engineering Manufacture	Aerospace	ST0547 – Engineering Technician (pathways 1-4)
	Marine (Shipbuilding, Maintenance and Repair)	ST0547 – Engineering Technician (pathways 5-8) ST0364 – Marine Engineer
	Mechanical Manufacturing Engineering – Spring Making	ST0432 – Engineering Fitter
	Mechanical Manufacturing Engineering – Pipefitting & Assembly	ST0432 – Engineering Fitter
	Mechanical Manufacturing Engineering – Photonics Engineering	ST0432 – Engineering Fitter
	Mechanical Manufacturing Engineering – Mechanical Overhaul and Test	ST0432 – Engineering Fitter
	Mechanical Manufacturing Engineering – Machining	ST0547 – Engineering Technician (pathway 9)
	Mechanical Manufacturing Engineering – Machine Tool Setting	ST0547 – Engineering Technician (pathway 12) ST0432 – Engineering Fitter
	Mechanical Manufacturing Engineering – Fitting and Assembly	ST0432 – Engineering Fitter
	Mechanical Manufacturing Engineering – Composite Manufacture Engineering	ST0432 – Engineering Fitter ST0094 – Composites Technician
	Mechanical Manufacturing Engineering – CNC Machining	ST0547 – Engineering Technician (pathway 9)
	Marine (Yacht and Boat Building, Maintenance and Repair)	ST0547 – Engineering Technician (pathways 5-8) ST0364 – Marine Engineer



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SASE Apprenticeship Framework	Pathway & Occupation	New Apprenticeship Standard
Level 3 Engineering Manufacture	Engineering Maintenance – Servicing Medical Equipment	ST0547 – Engineering Technician (pathway 10)
	Engineering Maintenance – Services Maintenance	ST0547 – Engineering Technician (pathway 10)
	Engineering Maintenance – Mechanical	ST0547 – Engineering Technician (pathway 10)
	Engineering Maintenance – Lift Servicing	ST0252 – Lift and Escalator Electromechanic
	Engineering Maintenance – Lift Repair	ST0252 – Lift and Escalator Electromechanic
	Engineering Maintenance – Installation and Control	ST0432 – Engineering Fitter
	Engineering Maintenance – Fluid Power	ST0547 – Engineering Technician (pathway 10)
	Engineering Maintenance – Escalator Repair and Service	ST0252 – Lift and Escalator Electromechanic
	Engineering Maintenance – Engineered Systems	ST0547 – Engineering Technician (pathway 10)
	Engineering Maintenance – Electronic	ST0547 – Engineering Technician (pathway 10)
	Engineering Maintenance – Electrical	ST0547 – Engineering Technician (pathway 10)
	Engineering Maintenance – Communication Electronics	ST0547 – Engineering Technician (pathway 10)
	Fabrication and Welding	ST0607 – Metal Fabricator
	Materials Processing and Finishing	ST0607 – Metal Fabricator



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SASE Apprenticeship Framework	Pathway & Occupation	New Apprenticeship Standard
Level 3 Engineering Manufacture	Engineering Technical Support	ST0547 – Engineering Technician (pathway 13)
	Electrical and Electronic Engineering – Testing Electronic Circuits	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Testing Electrical Equipment	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Manufacturing Transformers and Inductors	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Manufacturing Electronic Motors and Gears	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Manufacturing Electrical Control Systems and Equipment	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Leading Printed Circuit and Allied Circuit Assembly	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Leading Electronics Assembly	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Leading Electronic Component Manufacture	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Designing Electronic Circuits	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Controlling Semi-conductor and Manufacturing Processes	ST0432 – Engineering Fitter
	Electrical and Electronic Engineering – Controlling Printed Circuit and Allied Circuit Assembly	ST0432 – Engineering Fitter

SASE Apprenticeship Framework	Pathway & Occupation	New Apprenticeship Standard
Level 3 Engineering Manufacture	Installation and Commissioning	ST0432 – Engineering Fitter
	Engineering Toolmaking	ST0547 – Engineering Technician (pathway 12)
	Automotive	ST0547 – Engineering Technician (pathway 10)
	Engineering Woodworking, Pattern and Model Making	ST0547 – Engineering Technician (pathway 12) ST0566 – Metal Casting, Foundry and Patternmaking Technician
	Engineering Leadership	ST0695 – Process Leader (L4)
Level 2 Improving Operational Performance	Performing Engineering Operations	ST0537 – Engineering Operative
	Performing Manufacturing Operations	ST0420 – Lean Manufacturing Operative
	Business Improvement Techniques	ST0193 – Improvement Technician (L3)
Level 3 Operations and Quality Improvement	Business Improvement Techniques	ST0192 – Improvement Practitioner (L4)
Level 4 Advanced Manufacturing Engineering	Aerospace	ST0019 – Aircraft Certifying Maintenance Engineer ST0841 – Engineering Manufacturing Technician
	Nuclear Related Technology	ST0292 – Nuclear Welding Inspection Technician ST0841 – Engineering Manufacturing Technician ST0380 – Nuclear Engineer (L5)
	Mechanical	ST0841 – Engineering Manufacturing Technician
	Electrical/Electronics	ST0841 – Engineering Manufacturing Technician
	Automotive	ST0841 – Engineering Manufacturing Technician ST0695 – Process Leader
	Maintenance	ST0841 – Engineering Manufacturing Technician
	Wind Generation	ST0841 – Engineering Manufacturing Technician
	Marine	ST0841 – Engineering Manufacturing Technician
	Space Engineering	ST0855 – Space Technician ST0841 – Engineering Manufacturing Technician
	Rail Engineering	ST0317 – Rail Engineering Advanced Technician ST0528 – High Speed Rail and Infrastructure Technician

OUR APPRENTICESHIP STANDARDS OFFER

Take a look at our apprenticeship standards offer in this sector where we have a range of mandatory and optional qualifications developed in consultation with industry.

For more information on our apprenticeship standards visit quals.pearson.com/standards

Apprenticeship Standard	Reference	On-Programme Qualification	Level	Typical Duration (months)	Maximum Funding (£)
Aerospace engineer (degree)	ST0010	Optional HNC or HND in Engineering	6	48	27000
Aerospace software development engineer (degree)	ST0013	Optional HNC or HND in Engineering	6	48	27000
Automation and controls engineering technician	ST0662	Optional HNC in Engineering	4	48	14000
Composites technician	ST0094	Mandated Level 3 in Composites Engineering	3	36	27000
Control / technical support engineer (degree)	ST0023	Optional HNC or HND in Engineering	6	60	27000
Electrical / electronic technical support engineer (degree)	ST0024	Optional HNC or HND in Engineering	6	60	27000
Engineering design and draughtsperson	ST0164	Optional Level 3 Advanced Manufacturing Engineering	3	42	24000
Engineering fitter	ST0432	Mandated Level 3 Advanced Manufacturing Engineering	3	42	21000
Engineering manufacturing technician	ST0841	Mandated - HNC in Engineering - HNC in Manufacturing Operations	4	42	21000
Engineering operative	ST0537	Mandated Level 2 Engineering Operations	2	12	6000
Engineering technician	ST0457	Mandated - Level 2 Advanced Manufacturing Engineering (Foundation Competence) - Level 2 Aerospace & Aviation Engineering (Foundation Knowledge) - Level 2 Machining (Foundation Knowledge) - Level 3 Advanced Manufacturing Engineering (Development Technical Knowledge) - Level 3 Aerospace & Aviation Engineering (Development Knowledge) - Level 3 Machining (Development Knowledge)	3	42	26000
Food and drink maintenance engineer	ST0195	Optional Level 3 Advanced Manufacturing Engineering	3	42	27000
Food and drink process operator	ST0199	Optional Level 2 Manufacturing	2	18	5000

Apprenticeship Standard	Reference	On-Programme Qualification	Level	Typical Duration (months)	Maximum Funding (£)
Heritage engineering technician	ST0571	Optional Level 3 Advanced Manufacturing Engineering	3	42	26000
High speed rail and infrastructure technician	ST0528	Optional HNC in Rail Engineering	4	36	21000
Lean manufacturing operative	ST0420	Mandated Level 2 Manufacturing	2	12	6000
Leisure and entertainment engineering technician	ST0569	Optional Level 3 Advanced Manufacturing Engineering	3	30	21000
Lift and escalator electromechanic	ST0252	Optional Level 3 Advanced Manufacturing Engineering	3	36	21000
Maintenance and operations engineering technician	ST0154	Optional Level 3 Advanced Manufacturing Engineering	3	36	26000
Manufacturing engineer (degree)	ST0025	Optional HNC or HND in Engineering	6	60	27000
Manufacturing manager (degree)	ST0515	Optional HNC or HND in Engineering	6	42	24000
Metal casting, foundry and patternmaking technician	ST0566	Optional Level 3 Advanced Manufacturing Engineering	3	27	24000
Metal fabricator	ST0607	Mandated Level 3 Advanced Manufacturing Engineering	3	42	27000
Nuclear technician	ST0380	Optional HND in Nuclear Engineering	5	36	21000
Nuclear welding inspection technician	ST0292	Optional HNC in Nuclear Engineering	4	48	27000
Process leader	ST0695	Optional - HNC in Engineering - HNC in Manufacturing Operations	4	24	11000
Product design and development engineer (degree)	ST0027	Optional HNC or HND in Engineering	6	60	27000
Propulsion technician	ST0588	Optional - HNC in Engineering - HNC in Manufacturing Operations	4	42	21000
Rail engineering advanced technician	ST0316	Mandated HNC in Rail Engineering	4	48	27000
Rail engineering operative	ST0317	Mandated - Level 2 Rail Engineering Operative (Competence) - Level 2 Rail Engineering Operative (Knowledge)	2	12	12000
Rail engineering technician	ST0318	Mandated Level 3 Rail Engineering Technician Knowledge	3	36	24000
Science industry maintenance technician	ST0249	Optional Level 3 Advanced Manufacturing Engineering	3	36	27000
Science manufacturing technician	ST0250	Optional Level 3 Advanced Manufacturing Engineering	3	18	27000



RESOURCES

Pearson Learning Hub

Pearson Learning Hub provides bite-sized and mobile optimised learning programmes, which supports apprenticeships, employee development and skills training.

It includes 13 workplace behaviours and skills - designed to support employee soft-skills and behaviours development such as decision-making, problem solving, resilience and more.

More content is being added to Learning Hub on a regular basis, so keep checking for the latest updates.

For more information visit:
go.pearson.com/lh

For more information on our Engineering and Manufacturing apprenticeship offer:

Contact your Business/Curriculum Development Manager

Visit: **quals.pearson.com/standards**

Email - Training/Employer Providers:
wblcentresupport@pearson.com

Email - FE Colleges:
fecentresupport@pearson.com



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