


T-LEVELS

 Institute for Apprenticeship
& Technical Education

Engineering and Manufacturing T Level Curriculum Delivery Plan


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Agenda

- Welcome
- Engineering & Manufacturing T Level Technical Qualifications Numbers
- T Level Approval Process
- Delivery models
- Key exam dates
- High level overview of sequence of assessment over two years
- Centre support

Specifications

<https://www.cityandguilds.com/tlevels/engineering>

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T Level Technical Qualification in Maintenance, Installation and Repair for Engineering and Manufacturing

Specification

First teaching from September 2022
Version 1.0

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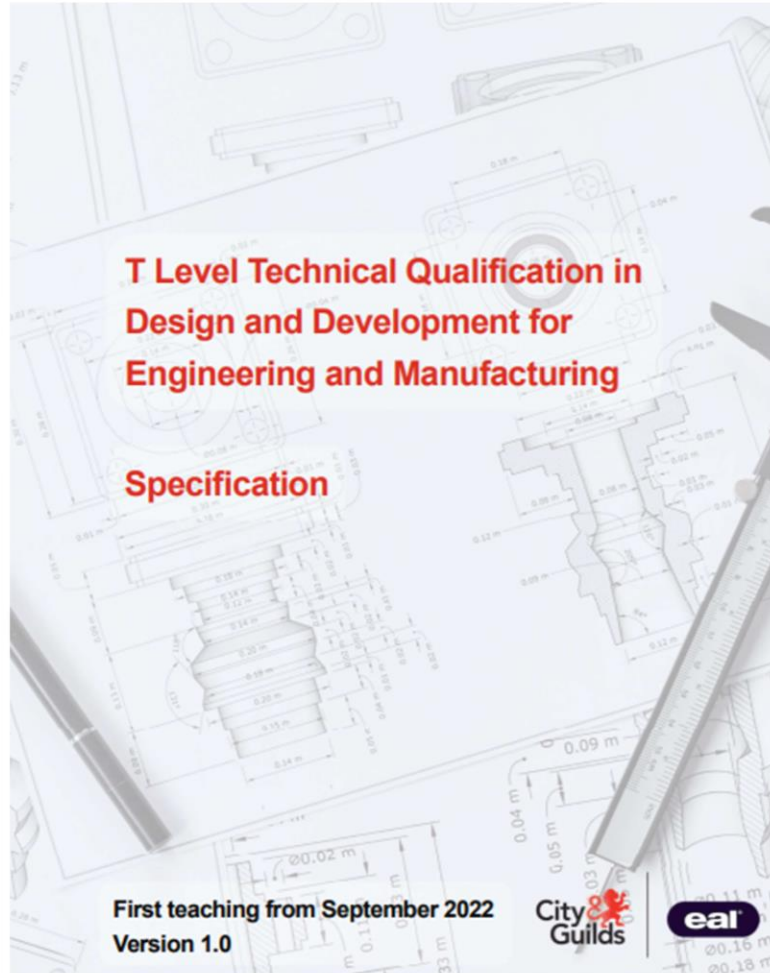
T Level Technical Qualification in Engineering, Manufacturing, Process and Control

Specification

First teaching from September 2022
Version 1.0

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T Level Technical Qualification in Design and Development for Engineering and Manufacturing

Specification

First teaching from September 2022
Version 1.0

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[T Level Technical Qualification in Maintenance, Installation and Repair for Engineering and Manufacturing qualifications and training courses | City & Guilds \(cityandguilds.com\)](https://www.cityandguilds.com/tlevels/engineering)

[T Level Technical Qualification in Engineering, Manufacturing, Processing and Control qualifications and training courses | City & Guilds \(cityandguilds.com\)](https://www.cityandguilds.com/tlevels/engineering)

[T Level Technical Qualification in Design and Development for Engineering and Manufacturing qualifications and training courses | City & Guilds \(cityandguilds.com\)](https://www.cityandguilds.com/tlevels/engineering)

T Level Technical Qualifications

Maintenance, Installation and Repair for Engineering and Manufacturing	
8730 - 12	Core
8712 - 31	Mechanical
8712 - 32	Mechatronics
8712 - 33	Electrical & Electronics
8712 - 34	Control & Instrumentation
8712 - 35	Light & Electric Vehicles

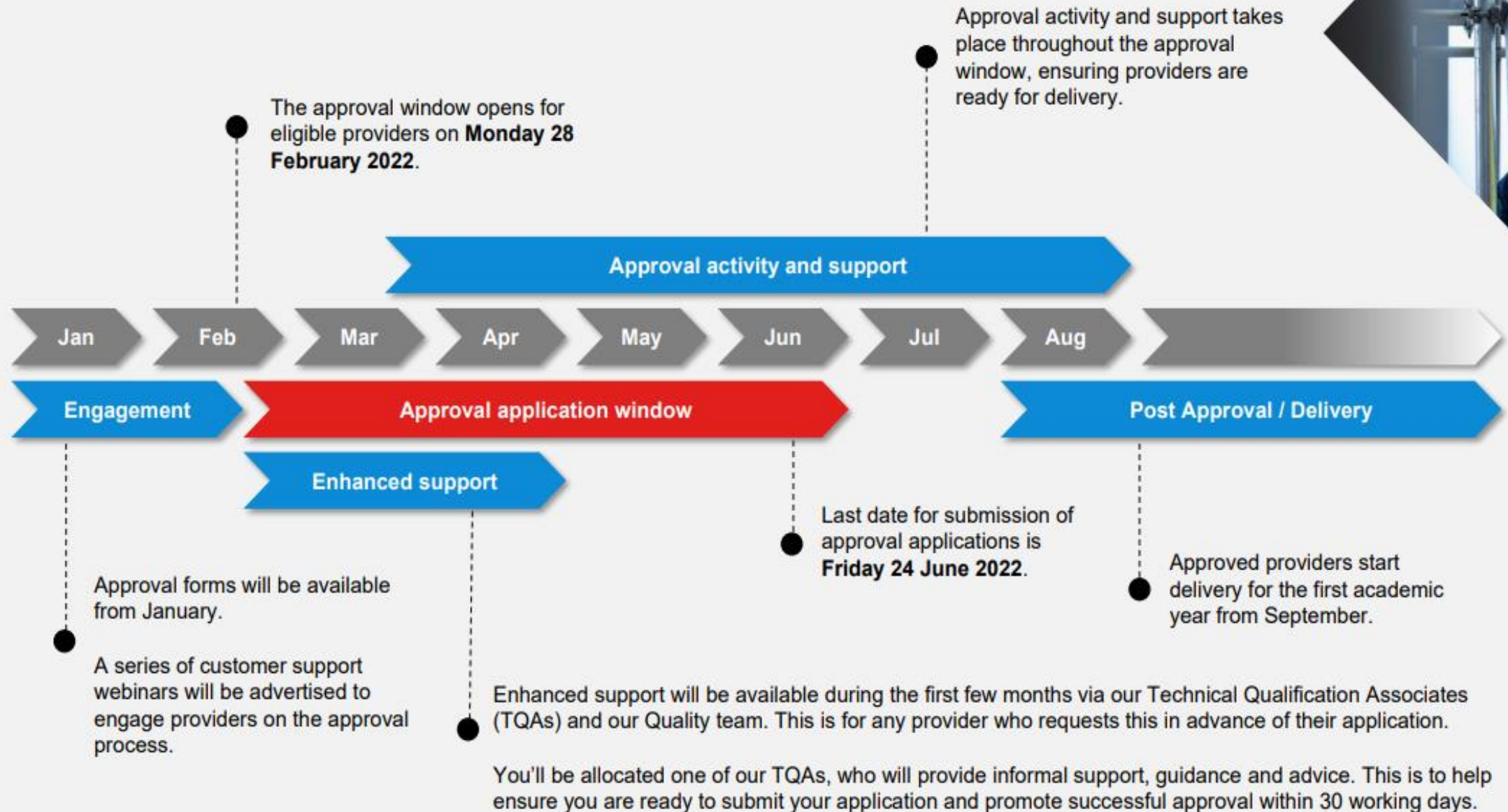
Engineering, Manufacturing, Processing and Control	
8730 - 13	Core
8713 - 31	Fitting and Assembly Technologies
8713 - 32	Machining and Toolmaking Technologies
8713 - 33	Composites Manufacturing Technologies
8713 - 34	Fabrication and Welding Technologies

Design and Development for Engineering	
8730 - 14	Core
8714 - 31	Mechanical Engineering
8714 - 32	Electrical & Electronics Engineering
8714 - 33	Control & Instrumentation Engineering
8714 - 34	Structural Engineering

Registration information-
Core first before OS



Approval timeline



Steps to approval



Providers eligible to deliver T Level Technical Qualifications for first teaching from September 2022 will be contacted by the City & Guilds Quality team in February 2022 and invited to complete the relevant approval application.



The application is a self-assessment. Part of the application will require details of physical resources and staff resources. You'll need to provide details of qualifications and relevant experience for those involved in the delivery of the TQs. Make sure you have everything ready in advance, including sources of evidence as you'll need to submit these to your allocated TQ Associate (TQA).



TQAs have the relevant occupational and quality assurance experience for the TQ.

Your allocated TQA will review your application, complete an approval activity (which is usually a visit to your site) and support you through the approval process.

Make sure you get the best use of the time with your TQA.



All applications will be acknowledged within two working days and subject to being completed correctly and meeting the initial criteria, a TQA will contact you within five working days of submission.

The approval process should take no longer than 30 working days from the submission of the approval application and required evidence.



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Delivery Models

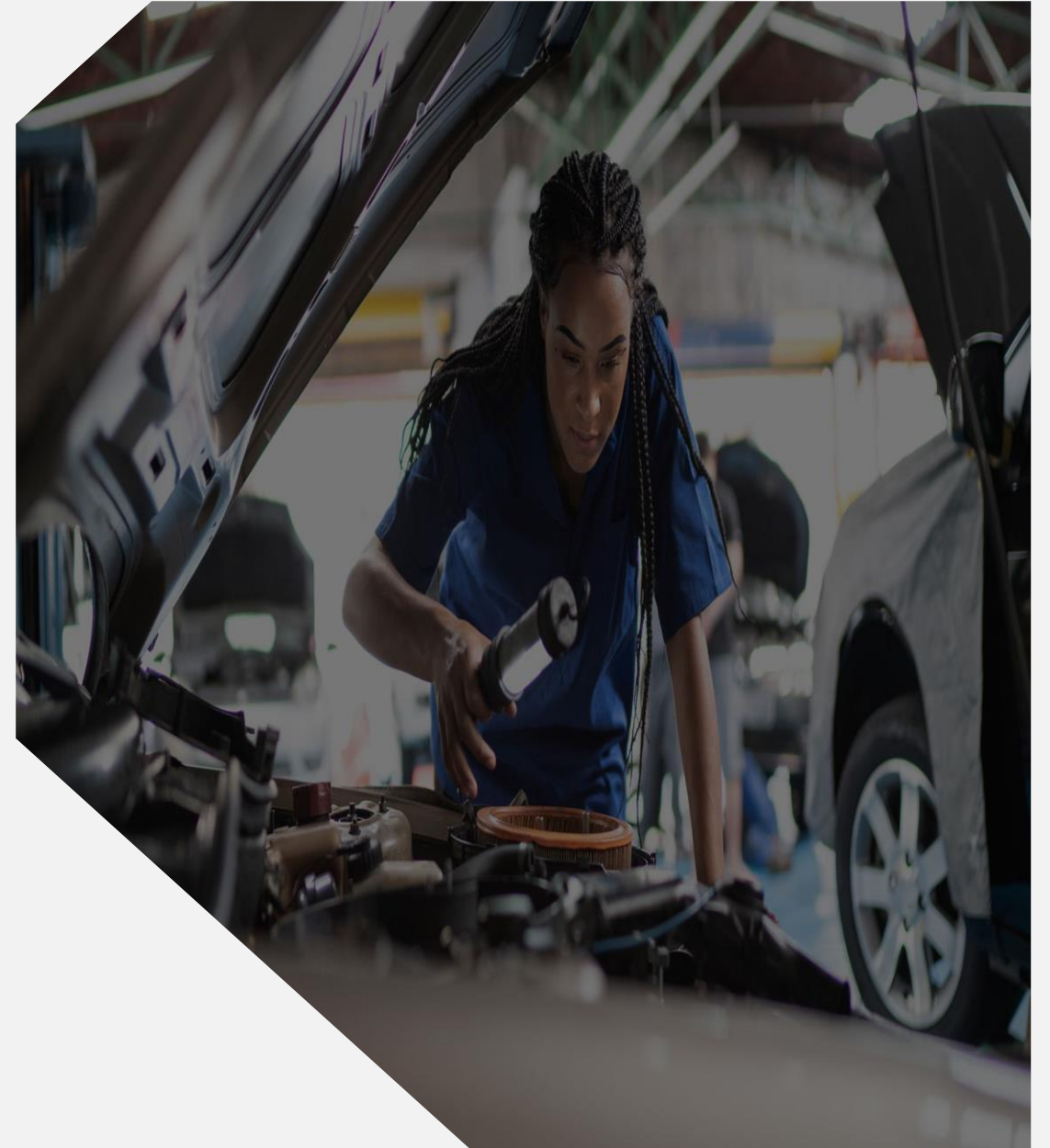
Timetables and Curriculum Plans

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Technical Qualification – Core Units

Element	Title	GLH
1	Working within the engineering and manufacturing sectors	30
2	Engineering and manufacturing past, present, and future	30
3	Engineering representations	40
4	Essential mathematics for engineering and manufacturing	90
5	Essential science for engineering and manufacturing	90
6	Materials and their properties	60
7	Mechanical principles	35
8	Electrical and electronic principles	35
9	Mechatronics	30
10	Engineering and manufacturing control systems	30
11	Quality management	30
12	Health and safety principles and coverage	60
13	Business, commercial and financial awareness	30
14	Professional responsibilities, attitudes, and behaviours	15
15	Stock and asset management	15
16	Continuous improvement	30
17	Project and programme management	30



Core example timetable

T Level common Core Example Timetable

(Note- the below is a typical example and is not fixed in anyway. We have grouped some units together to create full lessons. Centres can use this example or adapt it based on their own requirements. Based on a delivery model of 36 weeks.)



PROGRAMME	Engineering & Manufacturing T Level										
	9	10	11	12	1	2	3	4	5		
Monday	Unit 4- Essential Mathematics for engineering and manufacturing			Lunch	Unit 5- Essential science for engineering and manufacturing			Unit 6- Materials and their properties			
Tuesday	Unit 8/9 Electrical and electronics/ Mechatronics			Unit 7- Mechanical principles	Lunch	Unit 1/2- Working within the engineering and manufacturing sectors/ Engineering and manufacturing past, present and future		Unit 3- Engineering representations			
Wednesday	Unit 10/11- Engineering and manufacturing control systems/ Quality management			Unit 12- Health and safety principles and coverage		Lunch	Unit 13/15/17- Business, commercial and financial awareness/ Stock and asset management/ Project and programme management				
Thursday	Unit 14/16- Professional responsibilities, attitudes, and behaviors/ Continuous Improvement		Pastoral Support as required								
Friday	Industry Placement Opportunity										

Core example timetable with Occupational Specialism

T Level common Core Example Timetable with Occupational Specialism practical

(Note- the below is a typical example and is not fixed in anyway. We have grouped some units together to create full lessons. Centres can use this example or adapt it based on their own requirements. Based on a delivery model of 36 weeks.)



PROGRAMME	Engineering & Manufacturing T Level										
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Monday	Unit 4- Essential Mathematics for engineering and manufacturing			Lunch	Unit 5- Essential science for engineering and manufacturing			Unit 6- Materials and their properties			
Tuesday	Unit 8/9 - Electrical and electronics/ Mechatronics			Unit 7- Mechanical principles	Lunch	Unit 1/2- Working within the engineering and manufacturing sectors/ Engineering and manufacturing past, present and future		Unit 3- Engineering representations	Pastoral Support as required		
Wednesday	Unit 10/11- Engineering and manufacturing control systems/ Quality management			Unit 12- Health and safety principles and coverage		Lunch	Unit 13/15/17- Business, commercial and financial awareness/ Stock and asset management/ Project and programme management		Pastoral Support as required		
Thursday	Industry Placement Opportunity										
Friday	Unit 14/16- Professional responsibilities, attitudes, and behaviors/ Continuous Improvement		Occupational Specialism practical								

Key for Deliver/Curriculum Planners (Engineering & Manufacturing)

Induction
Core Component - 300 (680 GLH)
External Theory Exams x2 (2 hours 30 mins each)
Employer Set Project
Revision/Recap/Prep (Formative Assessments)-Core Component
Occupational Specialism
Synoptic Practical Assessment - One Series Annually
Preparation for Practical Synoptic (Formative Assessments)
Industry Placement (315 Hours/45 Days)

Curriculum Plan with Core only in Year 1

Induction
Core Component - 300 (680 GLH)
External Theory Exams x2 (2 hours 30 mins each)
Employer Set Project
Revision/Recap/Prep (Formative Assessments)-Core Component
Occupational Specialism Introduction
Occupational Specialism
Synoptic Practical Assessment - One Series Annually
Preparation for Practical Synoptic (Formative Assessments)
Industry Placement (315 Hours/45 Days)

Curriculum Plan with Core and OS in Year 1

Where are the delivery planners located

<https://www.cityandguilds.com/tlevels/resources>

Resource Hub - T Levels | City & Guilds

cityandguilds.com/tlevels/resources

A City & Guilds Group Business

COVID-19 OUR OFFER QUALIFICATIONS APPRENTICESHIPS TECHNICALS **T LEVELS** RECOGNITION QUALIFICATION DELIVERY INTERNATIONAL

EMPLOYERS PROVIDERS LEARNERS **RESOURCE HUB** EVENTS AND WEBINARS PODCASTS FAQs

Resources and support hub

Home > T Levels > Resource Hub

Resources and support hub

Welcome to the Resource and Support Hub for T Level Technical Qualifications.

Here you'll find a range of teaching, learning and planning resources for tutors as well as information and support regarding approval, quality assurance, registration, bookings, timelines, fees and communications for all staff.

- Approval and quality assurance
- Specifications and centre documents
- Contact update form
- Teaching, learning and planning resources
- Registration and bookings
- Fees
- Curriculum delivery planners
- Tutor resources
- Communications archive

T-LEVELS
THE NEXT LEVEL QUALIFICATION

T LEVELS

- Employers
- Providers
- Learners
- Resource Hub
- Events and webinars

Click the link on Curriculum delivery planners

Home > T Levels > Resource Hub

Resources and support hub

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Approval and quality assurance



Specifications and centre documents



Contact update form



Teaching, learning and planning resources



Registration and bookings



Fees



Curriculum delivery planners



Tutor resources



Communications archive



How will T Levels be graded?



- A nationally recognised certificate to show their overall grade and a breakdown of what they have achieved.
- An overall grade of Pass, Merit, Distinction or Distinction*.

The T Level certificate will also include:

- a separate grade for the core component, using A* to E
 - a separate grade for each occupational specialism, shown as pass, merit or distinction
 - grades for maths and English qualifications (if required)
 - completed the industry placement
 - met any additional mandatory requirements
- Learners who do not pass all elements of their T Level will get a T Level statement of achievement which will show the elements they have completed.

Key Date Schedule- 2023

Component	Series	Exam type	Calendar Month/s	Assessment window/set date
Core exam 1	First series	Written exam	May/June 2023	Set date
	*Retake series	Written exam	November 2023	Set date
Core exam 2	First series	Written exam	May/June 2023	Set date
	*Retake series	Written exam	November 2023	Set date
Employer-set project	First series	Project	March – May 2023	Set dates within assessment window
	*Retake series	Project	October 2023	Set dates within assessment window
Occupational specialism	One series annually	Project	February – May 2024	Assessment window

*Please note that the retake series is not only restricted to retakes.



Schemes of Assessment

Timetables and Curriculum Plans

Technical Qualification scheme of assessment components – Design & Development Pathway

Core component – Learners must complete all assessment components						
Assessment component	Method	Duration	Marks	Weighting	Marking	Grading
Exam paper 1	Externally set exam	2.5 hours	100	35%	Externally marked	This component will be awarded on the grade scale A* -E
Exam paper 2	Externally set exam	2.5 hours	100	35%	Externally marked	
Employer-set project	Externally set project	18.5 hours	90	30%	Externally marked	
Occupational Specialism Component – Learners must complete all assessment components						
Assessment component	Method	Duration	Marks	Weighting	Marking	Grading
Mechanical engineering	Externally set assignment	34 hours	90	100%	Externally moderated	All occupational specialism components will be awarded on the grade scale P,M,D
Electrical and electronic engineering	Externally set assignment	34 hours	90	100%	Externally moderated	
Control and instrumentation	Externally set assignment	34 hours	90	100%	Externally moderated	
Structural engineering	Externally set assignment	34 hours	90	100%	Externally moderated	

Technical Qualification scheme of assessment components – Maintenance, Installation and Repair Pathway

Core component – Learners must complete all assessment components

Assessment component	Method	Duration	Marks	Weighting	Marking	Grading
Exam paper 1	Externally set exam	2.5 hours	100	35%	Externally marked	This component will be awarded on the grade scale A* -E
Exam paper 2	Externally set exam	2.5 hours	100	35%	Externally marked	
Employer-set project	Externally set project	12.5 hours	90	30%	Externally marked	

Occupational Specialism Component – Learners must complete all assessment components

Assessment component	Method	Duration	Marks	Weighting	Marking	Grading
Maintenance engineering technologies: Mechanical	Externally set assignment	22 hours	90	100%	Externally moderated	All occupational specialism components will be awarded on the grade scale P,M,D
Maintenance engineering technologies: Mechatronic	Externally set assignment	22 hours	90	100%	Externally moderated	
Maintenance engineering technologies: Electrical and Electronic	Externally set assignment	22 hours	90	100%	Externally moderated	
Maintenance engineering technologies: Control and Instrumentation	Externally set assignment	22 hours	90	100%	Externally moderated	
Light and Electric Vehicles	Externally set assignment	22 hours	90	100%	Externally moderated	

Technical Qualification scheme of assessment components – Engineering, Manufacturing, Processing & Control Pathway

Core component – Learners must complete all assessment components

Assessment component	Method	Duration	Marks	Weighting	Marking	Grading
Exam paper 1	Externally set exam	2.5 hours	100	35%	Externally marked	This component will be awarded on the grade scale A* -E
Exam paper 2	Externally set exam	2.5 hours	100	35%	Externally marked	
Employer-set project	Externally set project	15 hours	90	30%	Externally marked	

Occupational Specialism Component – Learners must complete all assessment components

Assessment component	Method	Duration	Marks	Weighting	Marking	Grading
Fitting and assembly technologies	Externally set assignment	25 hours 15 minutes	90	100%	Externally moderated	All occupational specialism components will be awarded on the grade scale P,M,D
Machining and toolmaking technologies	Externally set assignment	25 hours 15 minutes	90	100%	Externally moderated	
Composites manufacturing technologies	Externally set assignment	24 hours 15 minutes	90	100%	Externally moderated	
Fabrication and welding technologies	Externally set assignment	26 hours 15 minutes	90	100%	Externally moderated	

Websites to Support Providers

T Level Industry Placement Delivery Guidance (updated 04/11/21)

[T Level industry placements delivery guidance - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/t-level-industry-placements-delivery-guidance)

Introduction to T levels (updated 21/11/21)

[T levels - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/t-levels)

How T Levels are funded (updated 03/11/21)

[How T Levels are funded - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/how-t-levels-are-funded)

T Levels capital fund (updated 17/12/21)

[T Levels capital fund - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/t-levels-capital-fund)

T Levels resources for teachers and careers advisers (updated 16/12/21)

[T Levels resources for teachers and careers advisers - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/t-levels-resources-for-teachers-and-careers-advisers)

T Levels: next steps for providers (updated 17/12/21)

[T Levels: next steps for providers - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/t-levels-next-steps-for-providers)

Supporting with delivering T Levels

[Support with delivering T Levels](https://www.gov.uk/guidance/supporting-with-delivering-t-levels)

T Level Transition Programme Framework for 2022 – 2023 (updated 17/12/2021)

[T Level Transition Programme Framework for Delivery 2022 to 2023 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/t-level-transition-programme-framework-for-delivery-2022-to-2023)

ETF Foundation – T Levels

[T Level Professional Development - Education & Training Foundation \(et-foundation.co.uk\)](https://www.et-foundation.co.uk/t-level-professional-development)

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Questions?
Thank you for attending

March 2022

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