

Digital

The National T Level Conference 26th June 2024

Agenda

- Introduction and context setting
- Awarding Body Update: Pearson and NCFE
- Session 1- Curriculum: City College Norwich
- Session 2- Employer and Provider story: Cyberkiln and NSCG
- Plenary
- Close

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Your delivery

i Start presenting to display the poll results on this slide.



Awarding Body Updates- NCFE & Pearson

The National T Level Conference 26th June 2024



Agenda

- Annual Update
- Support Materials
- Gen 2 Implications
- Looking Ahead

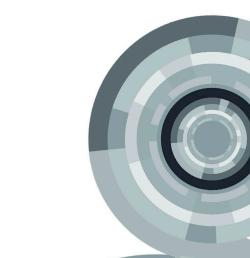






Annual Update

- No changes to content
- Changes to ASG to help delivery
 - Al statement in the OS
 - Not just pdfs can be submitted



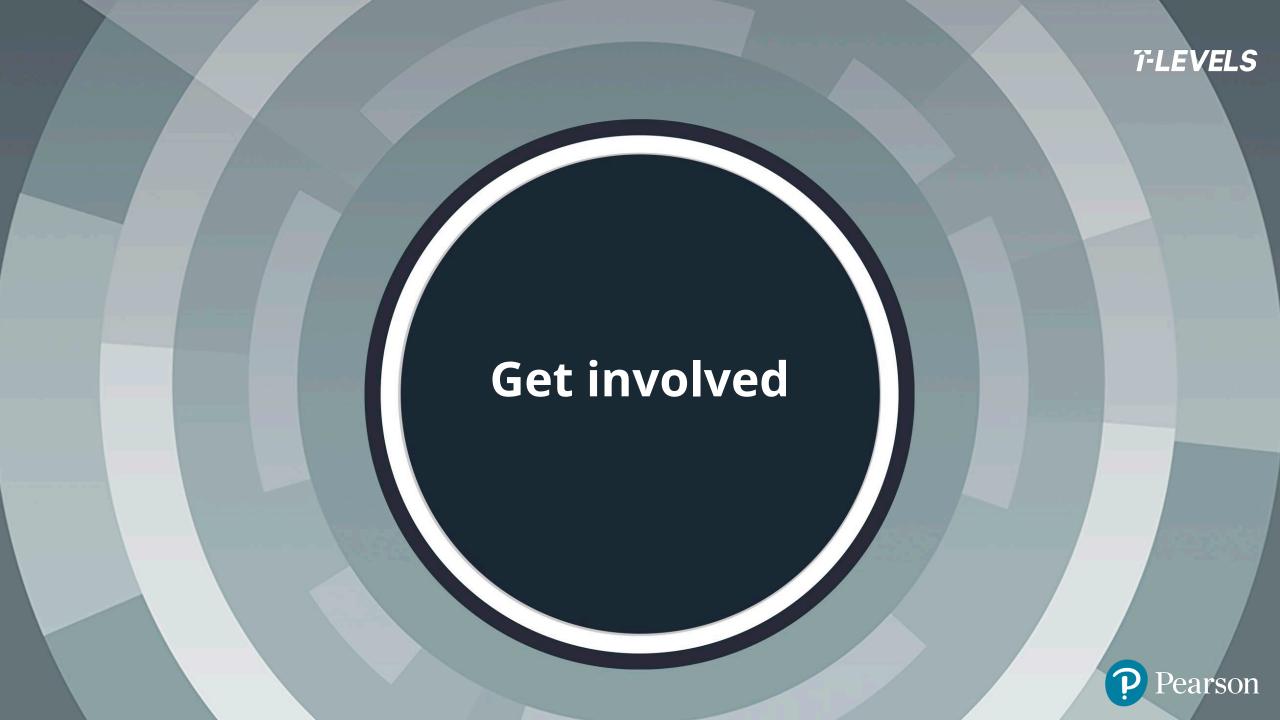




New Materials

- Curriculum planners
- Bite sized videos
 - Command words
 - Rider statements
- Exemplification materials
- Links to Cisco and other vendors coming





Join the provider panel

The panel helps keep the qualification up to date and current.

Providers input to the annual update of the specification and feedback on assessments.

Providers help with any re-development.

If you would like to be part of the panel, please contact

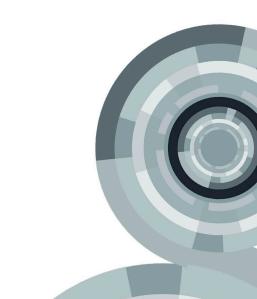
andrew.hambelton@pearson.com





What Is It?

- AO's currently in the tender phase (outcome pending)
- From 2025 a refreshed TQ will be available
 - Dual running with current TQ
 - Changes are possible to content and assessment
- New materials will be available Spring Term 2025







We Want To Hear From You

- What works?
- What doesn't?
- How can we improve
 - Student outcomes
 - Provider manageability
 - Support offering
- Email Us using the QR Code to give feedback







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Supporting Excellence in Digital T Level Education

James Lane

National T Level Conference Wednesday 26th June 2024 Leeds



01

Provider Support Offer

Dedicated Provider Development Officer

Tailored Support:

Provide customised guidance and resources to meet the unique needs of each provider.

Assist in aligning the provider's curriculum with T Level standards.

Initial Onboarding:

Facilitate a smooth transition into delivering T Level qualifications.

Provide comprehensive onboarding sessions covering all aspects of T Level implementation.



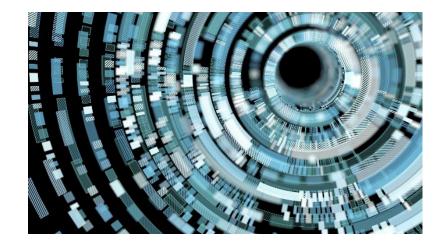
Support in the First Two Years





Conduct thorough onboarding sessions to familiarise providers with T Level requirements and best practices.

Provide initial training on curriculum development, assessment strategies, and student engagement techniques.



Year 2: Deepening Practice

Offer advanced training sessions to enhance teaching strategies and curriculum delivery.

Provide specialised support for assessment preparation and execution

Drop-in Clinics

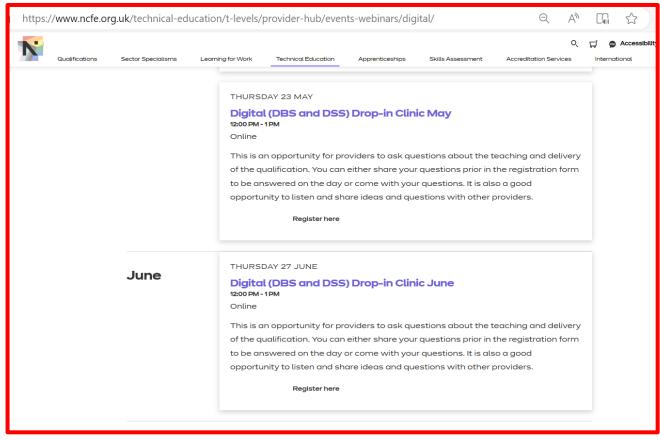
Support and Consultations

One to one consultations

Offer one-to-one consultations to address specific challenges and questions.

Drop-in clinics

Conduct regular check-ins to ensure continuous improvement and support.



<u>Digital events | T Level Provider Hub | NCFE</u>

Sessions and Workshops

Continuous Professional Development (CPD):

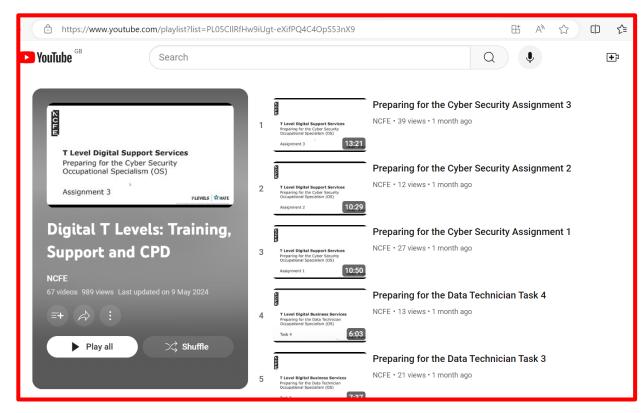
Deliver live CPD sessions tailored to emerging needs and feedback from providers.

Provide access to recorded on-demand sessions for flexible learning opportunities.

Assessment Preparation:

Offer dedicated support for assessment planning and execution.

Provide resources and training materials to help providers prepare students for assessments.



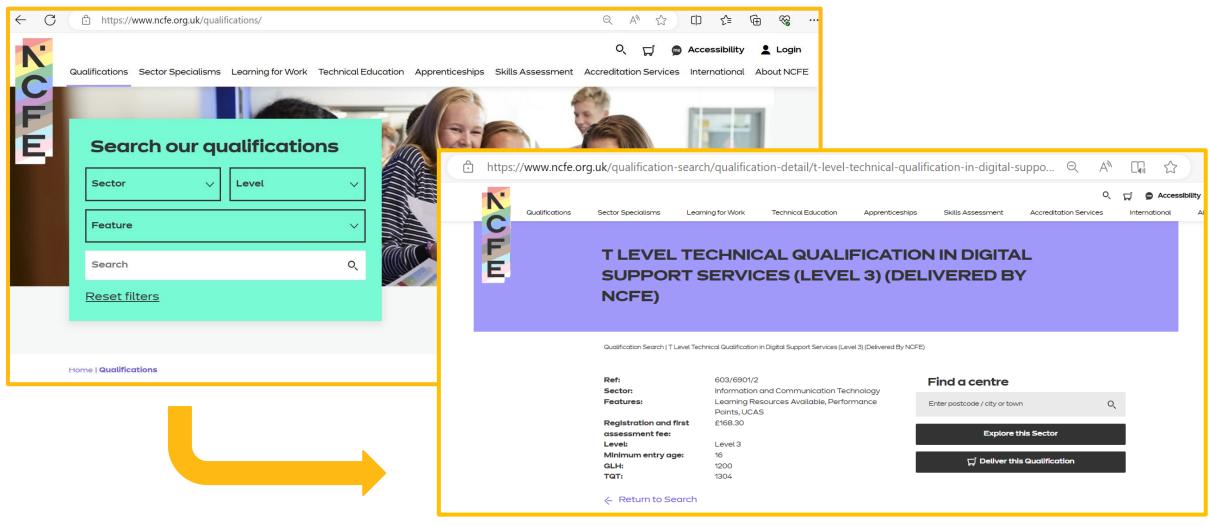
(3) Digital T Levels: Training, Support and CPD - YouTube



02

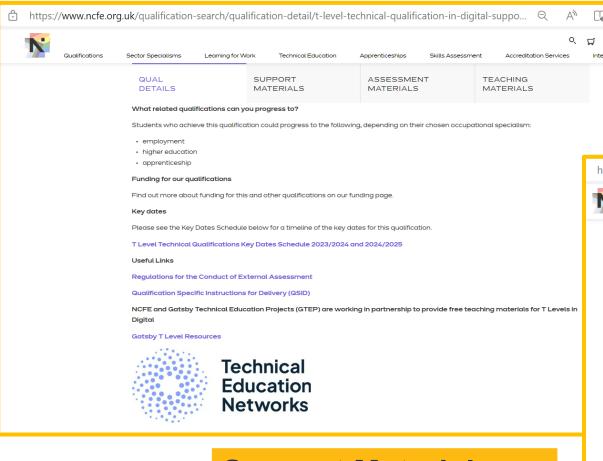
Website Navigation

Website Navigation

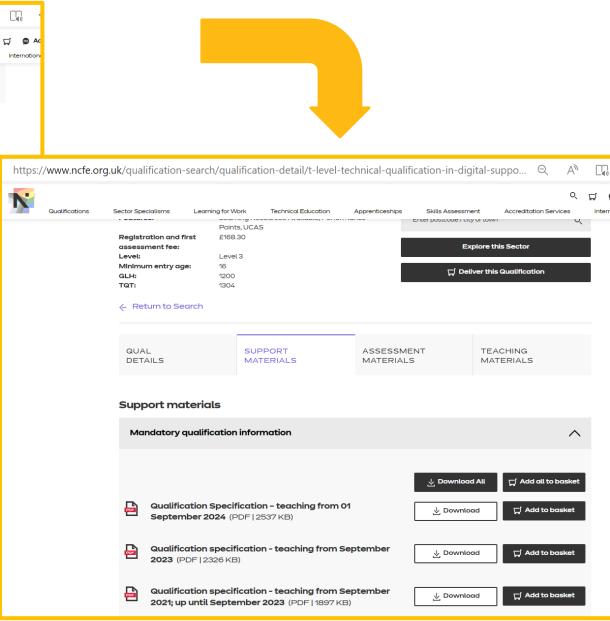


T Level Technical Qualification in Digital Support Services (Level 3) (Delivered By NCFE)

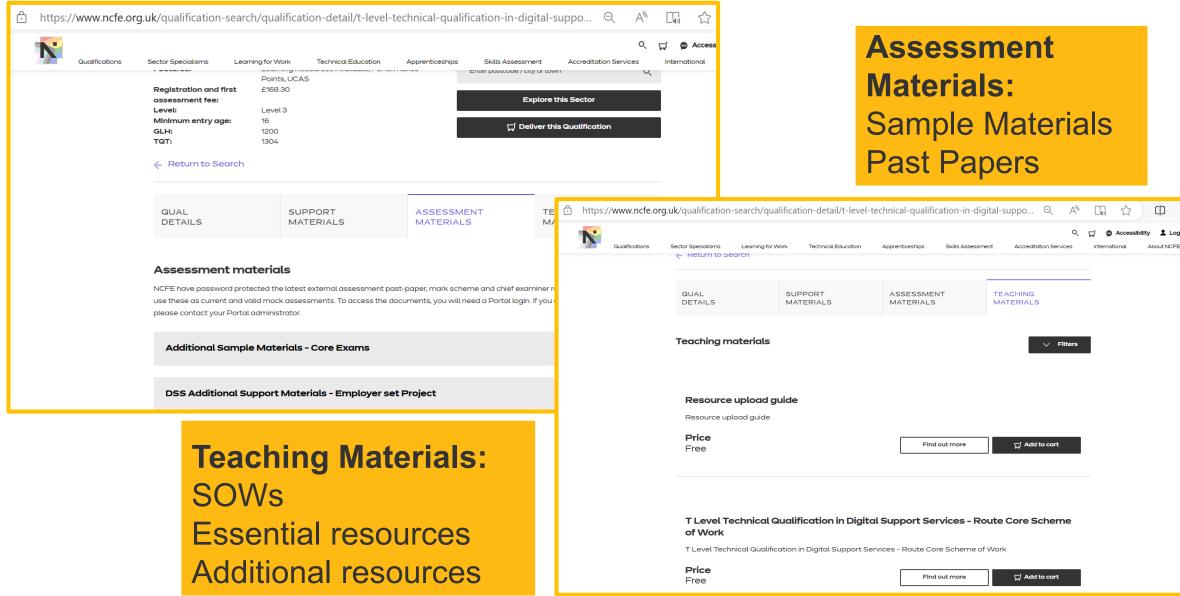
Website Navigation



Support Materials:
Specification
Sample Materials
Graded Exemplars



Website Navigation



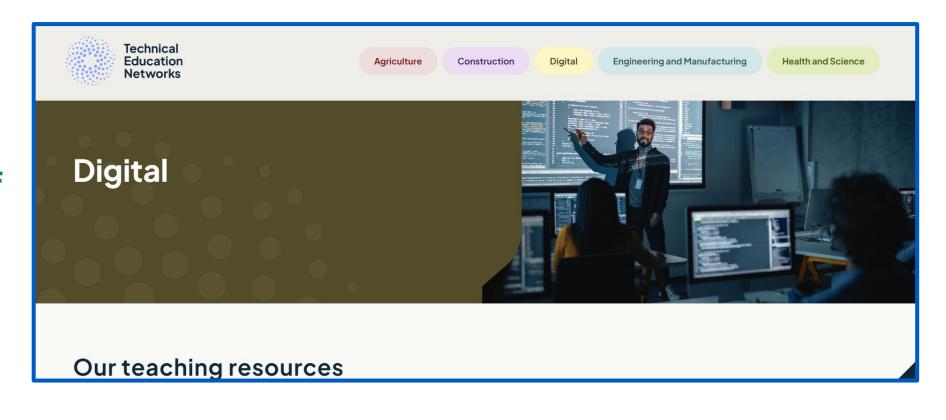
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03

Key Updates

Key Updates

- Updated version of specification
- New version of Key Date Schedule
- Technical Education Network resources



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James Lane

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ETFOUNDATION.CO.UK

Thank you Any Questions?



Session 1- Curriculum City College Norwich

The National T Level Conference 26th June 2024

Gatsby Technical Education Network

Digital Pathway

Roz Hicks

Head of Media, Business & Digital Industries









City College Norwich

- Large General FE and HE College in Norfolk
- 4 sites inner city Norwich FE Campus, Land based college on the outskirts of Norwich and rural north Norfolk campus focused mainly on Level 3 courses. We also have an HE school in Norwich too!
- Around a third of young people in Norfolk choose us as their educators







CCN T Level Offer

23/24

600 T level learners on programme 200 T level foundation year learners on programme

24/25

Target of 650 T level learners
Target of 200 T level foundation year learners

Health and Science

Science (Laboratory Science OS) 2021 Health (Adult Nursing OS) 2022 Health (Mental Health OS) 2023

Education and Childcare

Education (Early Years Educator) 2020 Education (Assisting Teaching OS) 2021

Engineering and Manufacturing

Maintenance, Installation and Repair (Maintenance Engineering Technologies: Mechanical OS) 2022 Maintenance, Installation and Repair (Maintenance Engineering Technologies: Mechatronic OS) 2022 Maintenance, Installation and Repair (Maintenance Installation and Repair: Vehicles OS) 2022

Construction

Design, Surveying and Planning (Surveying and design for construction and the built environment OS) 2020

Building Services Engineering (Plumbing OS) 2023

Building Services Engineering (Electrical Engineering OS) 2023

Business and Administration

Management and Administration (Team Leadership/Management OS) 2022 Management and Administration (Business Support OS) 2022 Marketing (2025)

Digital

Digital Production, Design and Development 2020
Digital Support Services (Digital Infrastructure OS) 2021

Agriculture

Agriculture, Land Management and Production (Tree and Woodland management and maintenance OS) 2024

Creative and Design

Media, Broadcast and Production (Events and Venues Technician) 2024







My Journey so far

- Involved with T Level Development since their inception in 2017
- Early adopter for Digital Production, Design & Development T Level in 2020 where I managed a team to design, develop and implement this course
- From there we widened our Digital offer in 2021 to include Digital Support Services: Digital Infrastructure and T Level Foundation Year Digital
- In 2022 we Introduced T Level Team Leadership & Management with 2 pathways: Team Leadership and Business Support, with a corresponding T Level Foundation Year Business
- The future TLFY Marketing; T Level Marketing







Curriculum Design

Industry Placements

Assessments

Pedagogy

Staff

Students

Considerations







Staffing

- Managing and supporting staff anxiety around curriculum change active listening and coaching techniques are essential
- Staff are crucial to the success of implementing T Levels, so to support
- Staff skills audit mapped to the route specific content to:
 - Identify staff skills gaps & staffing needs 'Dual Professionals'
 - Highlight industry insight professional development
- Set up 'industry insight' employer placements for staff professional development and to upskill to industry standards
- Staff involvement with provider panels with Awarding Organisations (Pearsons DPDD, NCFE DSS)
- Extensive engagement with a variety of external CPD from ETF, AoC, Gatsby etc.
- Encourage internal CPD with colleagues who already deliver linear learning
- Networking with other colleges (and continuing these support networks)







T Level Structure

- The T Level Programme of Study is different from previous vocational qualifications
- Increase in teaching hours GLH for Digital T Levels is 600 GLH
- Introduction of Industry Placements 315 hours within timetabled hours
- Challenging to timetable English & Maths GCSE alongside T Level meaning need to adjust Entry requirements for T Level qualification
- All of the above are key considerations for your curriculum design, the timetable you create and the student experience







Design and Sequencing

- T Level provides you with a real freedom of delivery
- You can choose how you wish to teach the content
- The course is not assignment driven as with previous vocational qualifications
- You can be more creative with your curriculum design
- Allows you to develop a variety of formative assessments
- Our approach was to work backwards starting at the Occupational Specialism and work backwards for effective sequencing
- We made the choice to deliver the specification via projects, therefore making the curriculum 'real'
- Engage with local employers to develop projects/assignments







Project Based Approach

- To design our Digital T Level to mirror industry standards & expectations
- Effective preparation for summative assessments, especially ESP and Occ Spec
- Also to utilise and adapt our existing resources to the new specification
- Students work in teams or individually to solve a problem, respond to a brief or answer a question
- We have asked employers to be involved and set their own projects
- Taken inspiration from Awarding Organisations, Gatsby Technical Education Networks, BCS, Zig Zag, KnowItAllNinja







Examples of Projects DPDD

- Project: Bus Arrival Time Calculator App
- Difficulty: Advanced
- **Problem Statement**: Develop a Python application that calculates the optimal bus to catch, ensuring the user arrives at their destination (college) on time. The application should consider factors like wake-up time, time to get ready, initial and final bus stop locations, time to walk to and from bus stops, and the selection of bus timetable data from different services.
- Your solution should allow users to better plan a journey to college / their destination and not arrive late - some considerations may need to be made - e.g. late or delayed buses, full or non-turning up buses - what else can you think of ??
- The functionality listed below are the basic guidelines you need to consider feel free to improve or add functionality/inputs outputs to improve the app.







Examples of Projects - DPDD

- 'Hangman V'S Battleships'
- You have been working on a Hangman or Battleships project. We need to look at the project management steps that are attached with Software development: One of the main Methods is Agile.

Task:

You must hand in on Drop Box <u>'Hangman</u> v's Battleships' - by no later than 24th June 16:00pm

- Introduction into game you have chosen Must include Problems and Risks,
 Software requirements.
- Research into the game you have chosen and how it works
- Suitable solution & designs with feedback from at least 1 person.
- Screen designs & Algorithms for the main program processes
- Testing Table What you will test, what you expect to happen and the actual outcome..
- · Feedback on final software solution
- · Optimisation of the software solution
- · Completed fully working software solution.
- Evaluation of stages of development, this means weaknesses and strengths,
 Recommendation or the future and improvements. The outcome success and what changes could be made.
- Documentation which shows your individual input into the project and software development process if you have worked within a team.







The business need

The Raspberry Pi Foundation runs a Dojo at its headquarters in Cambridge once a month.

These sessions are extremely popular and recently the sessions have had too many young people turn up. The organiser of the Dojo would like to set up a booking system which requires participants to book their place at the Dojo before the session. The system should allow users to cancel a booking if they are no longer able to attend



a session to ensure that spaces can be reallocated if available.

The organiser of the Dojo wants an online digital solution developed that:

- Allows the organiser to set and publish the date and time of upcoming Dojo events
- Allows a user to book a place at one of the upcoming Dojo events
- Allows a user to cancel a booking if it is no longer required
- Allows a user to join a waiting list if the event is already fully booked

During the Dojo event, a number of activities are provided, and young people can choose which activities they would like to try. This causes some challenges, as it is difficult to know in advance of the sessions what activities the attendees will choose, and therefore the resource requirements for each session (for example, the number of devices needed, the amount of space needed, etc). The organiser would potentially like the system to:

- Allow the organiser to list the activities that will take place during the Dojo event
- Create user accounts to speed up the booking process
- Prompt the user to select (in order of preference) three activities they would like to do during the Dojo event

Examples of Projects – DPDD From Gatsby TEN







Network Scenario

Oak Creative Technology is a company that specialises in the creative industries developing websites, computer animation, video and some motion capture work.

Oak Creative Technology is currently in the process of moving to a new building. The new building is 2 storeys high and features a range of different rooms, all with unique purposes. The cabling and installation of network ports has already been implemented and you need to add the required hardware that will provide a very robust network.

For the pilot stage you have been asked to make a small test network. If the test network is successful, then the main network will be set up in the same way. Thus, the network should be designed to be scalable. The initial test network should consist of 1 server and 2 client machines. You will need to create appropriate file shares for each user. Set the domain for this local file server to <u>oakcreativetech local</u>. There must be appropriate documentation to support the network.

The boss is coming in this morning to check progress, so you have to explain that to her. You must work together in order to meet the deadline.

Users:

User	Job role	Team
Samuel Adkins	CEO	All
Luther Ryan	Sales	Sales
Gayle Schultz	Sales	Sales
Bernard McDonald	Animator	Video
Brooke Watkins	Video editor	Video
Francis Schmidt	Motion capture	Video
Jennie Guzman	Assistant animator	Video
Tracy Aguilar	Assistant web editor	Web
Karl Collins	Web developer	Web
Sheri Dunn	Web developer	Web

Examples of Projects - DSS







Examples of Projects - DSS

The VLAN Task

■ Your task

Go through each of the highlighted topology diagrams in the document provided. For each one, write documentation on how you would build it using the equipment provided. Then, build each network, adjusting the documentation as you go.

For each topology...

In your pairs:

- 1. Write down the steps you will need to take to build the network. Be as detailed as possible.
- 2. Make a copy of the instructions you have just written. You will be editing this copy.
- Attempt to build the network based on the topology. As you go, update the copy with new instructions. Again, be as detailed as possible.
- 4. Test the network.
 - a. Each client on the network should be ping-able from every other client.
 - b. Each client should be able to ping every switch.
 - c. Each client should be able to ping every IP address on the router.

Norfolk Doors Project

- Student brief is to identify the requirements and plan a network upgrade for 'Norfolk Doors' company.
- Students are working in teams to produce a viable solution with the intention of presenting their solution to the Director at the end of the project.
- The project is designed to run between 35-40 hours.



NORFOLK DOORS







Examples of Projects - Employer

Project Brief

- Background
- Aviva attends numerous education events such as careers fairs, career talks and onsite visits hosting students to give them an insight into Aviva and the roles we have. Currently we have no mechanism for capturing student information or their interests in future roles at Aviva. By capturing this data we would be able to proactively engage those students to inform them of opportunities at Aviva through our apprentice and graduates schemes.
- The Project
- Create an online web form that provides information to a student about what we are going to do with their data, why we are storing it as well as capturing data about the student. The web form should have the following attributes:-







Client

Full Bean Coffee Shop

Objective

Design and develop a modern and user-friendly website for a local artisan coffee shop. This will be used as the central point for all shop marketing activity, with the overall aim to increase public awareness of the store and ultimately attract new customers.

The website should:

- Showcase the high-quality products
- Display the store location (google map) and opening times prominently
- Allow customers to get in touch via a contact form
- Provide a menu of products with prices
- Have a store News / Blog
- Integrate with social media platforms
- Display compelling storytelling about our journey, commitment to quality, and passion for coffee

The website will have a secure Content Management System (CMS) which will allow staff members to:

- Easily update page content
- Update shop opening times

Target Audience

Our target audience consists of middle-class individuals with disposable income who appreciate high-quality products and experiences. They value authenticity, craftsmanship, and are willing to invest in premium coffee and related products.

Examples of Projects - Employer

farrows®









Comfort Break

The National T Level Conference 26th June 2024



Session 2- Employer and Provider Story Cyberkiln and NSCG

The National T Level Conference 26th June 2024



T-Level Digital, Production, Design & Development

Meryl Finney – T-Level Manager NSCG

Chris Daniels - Cyberkiln Manager Director





CYBERAKILN

Chris Daniels – Founder & MD

CYBER KILN

Who are CyberKiln





CyberKiln is a bespoke software development company based in Stoke-on-Trent that provides tailor made software, apps and websites to businesses and charities across the UK.

Our mission is to be more than just a software company, it is to create great solutions whilst rekindling the local area as a digital technology power-house. That is why we work with local schools, colleges and charities to provide local people with the skills and experience to work in the digital creative industry.





CYBERAKILN How we work with NSCG

Business & AOC Engagement Talks



T-Level /Apprenticeships



Student Awards



Lecturer Upskilling Days



Industry Workshops



Dragons Lair Events





Looking to the future

The digital landscape is ever expanding and being digitally literate is an imperative fundamental requirement in today's world.

Early Digital Education

To provide a competitively skilled digital workforce for the future, we need to be teaching more complex digital topics from Key Stage 1.

Industry Support

Businesses, especially those within the digital sector, need to engage and support educational organisations and community groups.

Improved Access

Technology moves on at a staggering pace, and in order to achieve higher digital outputs in skillsets, improved access to digital equipment and services needs to be improved.

Develop Digital Communities

By establishing digital hubs within our communities, we help to not only share best practice and develop ideas, but we also help to eradicate digital exclusion.

CYBER KILN

Hear about T-Levels from our students







TYPICAL COURSE TIMELINE

Start Sept 2023

Year 1 Core Exams and ESP

Assessment May/June Year 2
Occupational
Specialism

Occ. Spec Assessment Feb – June 2025









PRE-PLACEMENT



- 1 placement officer at each site (case load 45)
- Soft skills
- Interviews (meeting with employers)
- Targets/Skills booklet
- Use of Grofar





Grofar - Benefits

- All students and staff can access the platform on any device from I-site
- Allows students to take more ownership of placements
- Compliance Tracks for T levels
- Great Reporting
- Snap shot of placements



Newcastle-under-Lyme College











NULC grades (year 1 2023)

Grades	Overall	Core Exams	ESP
A & A*	3	3	6
В	5	3	2
С	1	3	0
D	1	1	2
E	0	0	0
U	0	0	0
	10	10	10

Placement hours

2022/24 (year 2)

315 hours all complete.

2023/2025 (year 1)

• 160 hours complete.













T-LEVEL STUDENTS AND EMPLOYERS























Current Numbers – Digital

NULC

- Current year 1s = 14
- Year 2 -10
- Next year 35

Stafford

- Current year 1s= 14
- Next year 24

Total

- Year 1 -24
- Year 2 -10
- New intake:
- 58

Progression:

- University -Computer Science
- F/T employment
- Apprenticeship
- HTQ













FURTHER INFORMATION

For further information, please contact:

Meryl Finney

T-Level Manager NSCG

meryl.finney@nscg.ac.uk







NSCG NEWCASTLE COLLEGE

ANY QUESTIONS?





Industry Insights Helen West

The National T Level Conference 26th June 2024

Progression Options – Illustration for DPDD

Level 4 Apprenticeships

DevOps Engineer, Software Developer, Software Tester, IS Business Analyst, Data Analyst, Associate Project Manager, Junior Management Consultant

Degree Apprenticeship

Digital and Technology Solutions Professional, Chartered Manager, Data Scientist

Degree

Computer Science, Web Development, Software Engineering

Higher Technical Qualifications

Foundation Degree in Software Development, Diploma of HE in Software Development Diploma in Computing

Work

Software Development Technician, Junior Developer, Junior Web Developer, Junior Application Developer, Junior Mobile App Developer, Junior Games Developer, Junior Application Support Analyst, Junior Programmer, Assistant Programmer, Automated Test Developer

https://www.instituteforapprenticeships.org/qualifications/t-levels/t-level-progression-profiles/

Professional Registration

Register of IT Technicians (RITTech):

- Covers all entry-level tech and digital roles
- Shows you are working to professional standards and developing yourself as a digital professional
- A Digital T Level is recognised for Part-RiTTech registration

BCS will be confirming how this works before the end of term

Feedback from employer discussions

- Information about the specific student needs and requirements
- Taking more than one student with students from a mix of providers
- Tend to prefer placements in blocks at least at the beginning
- Help with defining suitable projects
- Greater clarity, between providers, about what is and what is not possible
- Greater clarity about a student will be able to do/not do second year students
- Greater sharing of practice

Additional Gatsby Support for T Levels





Teaching topic available	Teaching topics in production
Culture and the impact of technology	Employer set project
Emerging issues and impact of digital	DPDD- Non-programming elements in the core for business context
Digital environments (RPF)	DPDD/ DSS/DSS-Testing and KPIs
Project brief for Digital Production, Design and Development (RPF)	

Research - Technical Education Networks

Any questions please contact kelly.butterworth@gatsby.org.uk

Additional Gatsby Support for T Levels

- Destinations- If you would like to see your students featured in future videos, please contact sarah.herdan@gatsby.org.uk [https://www.technic aleducationnetworks.org.uk/destination-case-study-construction/]
- Gatsby is funding a project to support new collaborative curriculum planning networks, each working with a small group of colleges and facilitated by experienced FE curriculum professionals. The focus for each group will be shaped by the network members to support practical next steps for curriculum reform implementation.



Universities T Level Support Manager



Jo Hartley-Metcalfe

Universities T Level Support Manager

UK Institute for Technical Skills and Strategy

Jo.Hartley-Metcalfe@ITSS.org.uk

- A suite of digital resources to support hosting T Level Industry Placements including:
 - o T Level industry placement key considerations
 - Starter kit for coordinators
 - Starter kit for line managers
 - Benefits to universities
 - Plus more



- A series of webinars from our L&D Team
 - Managing young people in the workplace
 - Deconstructing your duties into work placement activities (for line managers)
 - Understanding how you can link the T Level curriculum, to work placement activities (for line managers)



Consult with a specialist:

- Regular meetings with Jo (as required and requested by you)
- Direct access to via email for all staff



- Webpage
- Socials
- Face to face events
- HE networks









Additional Gatsby Support for T Levels



- The National Apprenticeship and Skills Awards will be celebrating its 21st anniversary in 2024 and for the very first time will include awards to recognise T Level students and employers.
- The awards are designed to recognise and reward the achievements of exceptional apprentices and T Level students, skills champions and apprenticeship and T Level employers.
- Applications are now open. Visit the website for more information and to nominate your students and employer partners: <u>appawards.co.uk</u>

slido

Please download and install the Slido app on all computers you use





What will you take from today's sessions into your planning for Digital T Level delivery next year?

i Start presenting to display the poll results on this slide.



Thank you for attending

The National T Level Conference 26th June 2024