T Level Technical Qualification in Digital Software Development (Level 3)

Specimen Assessment Material

Time 18 hours

Paper reference XXXXX/XX

Occupational Specialism: Digital Software Development

TASK 1: Analysing the problem and designing a solution
Task Booklet

You must have:
Task1_TOKA_AILog.docx

Information

- The total mark for this set task is 54.
- This booklet contains material for the completion of the set task under supervised conditions.
- This booklet is specific to each series and this material must only be issued to students who have been entered to undertake the task in the relevant series.
- This booklet must be kept securely until the start of the 1-week assessment window.

Continue ▶

S85734A
Version 1
1/1/1/1

Pearson

Instructions for Students

You must complete ALL activities within the assessment.

Read the assessment information carefully.

You must plan your time and submit all required evidence at the end of the supervised period.

The task must be undertaken at the time and on the date specified by Pearson.

You will be given **18 hours** for producing the outcomes for this task.

Your provider will advise you of when any supervised breaks have been scheduled.

The task must be completed under supervised conditions.

You are allowed monitored access to the internet during the scheduled supervised sessions.

During this task you are **only** permitted to use AI during Activity C.

You are **not** permitted to use AI or any other tool designed to automate producing a response for any other activity during this task.

Files provided for use during this activity:

- Task1_TOKA_AILog.docx

Your work and any material provided must be kept securely at all times.

Task 1 Brief

The software development company that you work for has secured a new contract to develop a digital solution for ToKa Fitness.

ToKa Fitness currently provides customers with:

- personal training sessions
- advice about fitness training
- advice about healthy living.

The client (the owner of ToKa Fitness) would like to develop a digital solution that will:

- provide information and advice about fitness training and healthy living
- provide access to digital content to support customers with their training and healthy lifestyle
- encourage existing customers to use more of the services provided by ToKa Fitness.

The client has carried out some market research to identify features that their existing customers would like included in a digital solution. The features the existing customers identified are:

- free and paid-for content
- accessibility features for users with sight loss
- 'social' features
- customisable workout and eating plans.

Activities

Quality of Communication

When producing evidence in these activities, you should use high-quality communication that:

- uses appropriate technical vocabulary
- is suitable for the target audience
- ensures the different elements of your documentation are clear, allowing a third party to interpret them easily.

(6)

Activity A – Proposal (Suggested Time: 9 Hours)

Produce a detailed proposal for a digital solution you would develop to meet the needs of:

- the client (the owner of ToKa Fitness)
- existing and potential customers.

Your proposed solution must be of sufficient scope and complexity to demonstrate the ability to implement a coded solution for front-end and back-end processes.

You are advised to carry out research on digital solutions, current practice and emerging technology in the leisure (health and fitness) sector to support your proposal.

Your proposal should provide a rationale for the solution you are proposing and include:

- the business context
- the functional and non-functional requirements of the solution
- decomposition of the problems that will need to be solved to implement the functional and non-functional requirements
- the key performance indicators (KPIs) and user acceptance criteria for the proposed solution
- a description of the proposed solution
- justification of:
  - how the recommended solution meets the needs of the client and users
  - how potential risks will be mitigated
  - how relevant regulatory guidelines and legal requirements, in relation to software development and the industry, will be addressed
- an appendix containing any relevant notes made during your research.

(24)

Activity B – Visual Interface and Data Designs (Suggested Time: 4.5 Hours)

Produce a set of design documents for the digital solution that you are proposing. The design documentation must include:

- visual/interface designs
- data requirements.

Your design documents should be of sufficient detail to:

- effectively communicate the intended solution to both technical and non-technical stakeholders
- allow the client to make informed decisions
- allow a third-party developer to use the design documents to create the proposed solution.

(12)

Activity C – Use of Generative AI (Suggested Time: 4.5 Hours)

Use generative AI to create code snippets that could be used to address specific areas of functionality in your solution for ToKa Fitness.

The code generated for this activity should help solve a maximum of **five** different problems.

During this activity:

- do **not** try to generate a complete digital solution
- produce code that can be integrated into a larger solution
- address individual problems and areas of functionality that will be integrated into your final solution so that you can meet the requirements of the Task 1 brief.

When using generative AI for this task you must document the process you have followed. You must:

- record the prompts you entered into the AI model
- review the code generated by the AI model, including:
  - positives and negatives of the code generated
  - refinements that may need to be made to the code and the prompts that you used
- demonstrate an iterative process to improve the quality and appropriateness of the code generated.

(12)

(Total for Task 1 = 54 marks)
(this includes 48 task marks and 6 marks for quality of communication)

Continue ▶

Outcomes for Submission

1. A proposal for the designed solution, including appendices of relevant research notes to support the rationale

   Save your proposal as PDF files in your folder for submission. Use this naming convention:

   - Task1_Proposal_[Registration number]_[surname]_[first letter of first name]

2. A set of design documents

   Save your completed design documents as PDF files in your folder for submission. Use this naming convention:

   - Task1_DesignDocs_[Document name]_[Registration number]_[surname]_[first letter of first name]

3. A log of your use of generative AI

   Save your completed AI log as a PDF file in your folder for submission. Use this naming convention:

   - Task1_AILog_[Registration number]_[surname]_[first letter of first name]

Where there are multiple files, number them sequentially using _01, _02 etc at the end of the file name.

BLANK PAGE

Copyright and Acknowledgements

Copyright in this document belongs to, and is used under licence from, the Institute for Apprenticeships and Technical Education, © 2025.

'T-LEVELS' is a registered trade mark of the Department for Education.

'T Level' is a registered trade mark of the Institute for Apprenticeships and Technical Education.

'Institute for Apprenticeships & Technical Education' and logo are registered trade marks of the Institute for Apprenticeships and Technical Education.

The T Level Technical Qualification is a qualification approved and managed by the Institute for Apprenticeships and Technical Education.

Pearson Education Limited is authorised by the Institute for Apprenticeships and Technical Education to develop and deliver this Technical Qualification.

Pearson and logo are registered trade marks of Pearson.