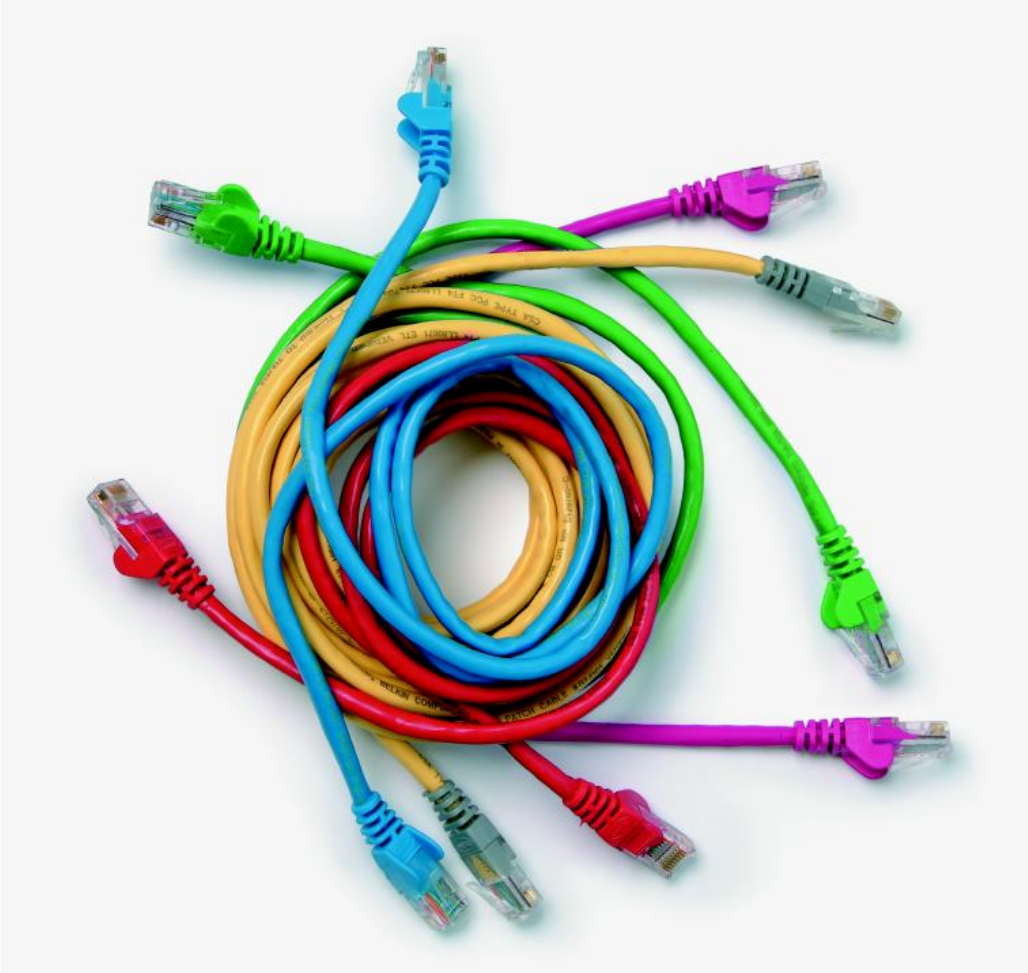
Level 3 Web fundamentals (7540-044)

Systems and Principles
Assignment guide for Candidates
Assignment C

www.cityandguilds.com
September 2017
Version 1.0



About City & Guilds

City & Guilds is the UK's leading provider of vocational qualifications, offering over 500 awards across a wide range of industries, and progressing from entry level to the highest levels of professional achievement. With over 8500 centres in 100 countries, City & Guilds is recognised by employers worldwide for providing qualifications that offer proof of the skills they need to get the job done.

City & Guilds Group

The City & Guilds Group includes City & Guilds, ILM (the Institute of Leadership & Management) which provides management qualifications, learning materials and membership services, NPTC which offers land-based qualifications and membership services, and HAB (the Hospitality Awarding Body). City & Guilds also manages the Engineering Council Examinations on behalf of the Engineering Council.

Equal opportunities

City & Guilds fully supports the principle of equal opportunities and we are committed to satisfying this principle in all our activities and published material. A copy of our equal opportunities policy statement is available on the City & Guilds website.

Copyright

The content of this document is, unless otherwise indicated, © City & Guilds Limited and may not be copied, reproduced or distributed without prior written consent.

However, approved City & Guilds centres and learners studying for City & Guilds qualifications may photocopy this document free of charge and/or include a locked PDF version of it on centre intranets on the following conditions:

- centre staff may copy the material only for the purpose of teaching learners working towards a City & Guilds qualification, or for internal administration purposes
- learners may copy the material only for their own use when working towards a City & Guilds qualification

The *Standard Copying Conditions* on the City & Guilds website also apply.

Please note: National Occupational Standards are not © City & Guilds Limited. Please check the conditions upon which they may be copied with the relevant Sector Skills Council.

Publications

City & Guilds publications are available on the City & Guilds website or from our Publications Sales department at the address below or by telephoning +44 (0)20 7294 2850 or faxing +44 (0)20 7294 3387.

Every effort has been made to ensure that the information contained in this publication is true and correct at time of publication. However, City & Guilds products and services are subject to continuous development and improvement, and the right is reserved to change products and services from time to time. City & Guilds cannot accept responsibility for any loss or damage arising from the use of information in this publication.

City & Guilds
1 Giltspur Street
London EC1A 9DD
T +44 (0)844 543 0000 (Centres) **www.cityandguilds.com**
T +44 (0)844 543 0033 (Learners) **learnersupport@cityandguilds.com**

Contents

Level 3 Web fundamentals (7540-044)

Assignment C

Introduction – Information for Candidates	2
Candidate Instructions	3

Level 3 Web fundamentals (7540-044)
Assignment C
Introduction – Information for Candidates

About this document
This assignment comprises all of the assessment for Level 1/2/3 Unit title (0000-[00]).

Health and safety
You are asked to consider the importance of safe working practices at all times.

You are responsible for maintaining the safety of others as well as your own. Anyone behaving in an unsafe fashion will be stopped and a suitable warning given. You will **not** be allowed to continue with an assignment if you compromise any of the Health and Safety requirements. This may seem rather strict but, apart from the potentially unpleasant consequences, you must acquire the habits required for the workplace.

Time allowance
The recommended time allowance for this assignment is **3 hours**.

Level 3 Web fundamentals (7540-044)

Candidate Instructions

Time allowance: 3 hours

Assignment set up:

This assignment is made up of **four** tasks:

- Task A – Design
- Task B – Build
- Task C – Test
- Task D – Knowledge

Scenario

You have just begun working for Tablet PCs UK INC; this is a new company to the market place. They have employed you as a web designer. Their aim is to advertise, and sell Tablet PCs to students to aid them either at college or university. They have asked you to design and build their website. You will receive the content of the website from the Assessor.

Read all of the instructions carefully and complete the tasks in the order given.

Task A – Design

1 Prior to designing your website it is important that you understand exactly what is required of the website. Firstly you need to interview the head of marketing for Tablet PCs UK INC (the Assessor), you will need to gain the following information from the interview:

- The aim of the website (both client and user)
- Any user requirements
- Timescales for completing the website.

Once you have this information you will need to produce a short report that outlines the details you have learned, including an implementation plan.

2 Tablet PCs UK INC have initially asked you to design a **five** page website that advertises and sells their range of Tablet PCs. The designs need to include the following:

- Layout of each page
- A navigation diagram
- The format of content including CSS
- Any interactive features
- Shopping cart
- Images
- Any animation

The plans can either be hand drawn or produced using ICT

Task B – Build

1 Following the plans created in Task A, build the five page website that advertises and sells the range of Tablet PCs.

Ensure your finished website includes the following:

- **Five** pages
- Images of the products
- Navigation between **all** pages
- **Two** different interactive features, including a pop-up image
- A shopping cart
- **One** animation.

Task C – Test

1 Now that your website is complete ask the Assessor to observe you whilst you complete the following tests:

- Functionality testing, open your website in **two** different web browsers
- Demonstrate your navigation ensuring **each** link works as per the design
- Demonstrate your interactive features

Task D – Knowledge

Please use the Answer Sheet provided to complete Task D.

1 Describe at least **five** hardware and **two** software components that enable access to the web and enable website production.

2 Explain the role of the following protocols

- TCP/IP including IPv6
- HTTP
- SMTP.

3 Explain the role of the following:

- Internet service providers
- Web hosting services
- Domain name registrars.

4 Identify and describe **four** types of web functionality.

5 Explain the use of **two** different Mark-Up languages.

6 Explain the use and functionality of:

- Web runtime environments
- Web application programming languages
- Databases including SQL

7 Identify **one** typical stack combination that can be used for web development.

When you have finished working:

- Sign each document above your name and label all removable storage media with your name.
- Hand all paperwork and removable storage media to your assessor.

If the assignment is taken over more than one period, all paperwork and removable media must be returned to the test supervisor at the end of each sitting.

End of assignment

Published by City & Guilds
1 Giltspur Street
London
EC1A 9DD
T +44 (0)844 543 0000 (Centres)
T +44 (0)844 543 0033 (Learners)
www.cityandguilds.com

City & Guilds is a company registered in England and Wales (company number 16513878)