

**Unit title: Systems Development: Testing Software**

**Unit code: H181 34**

Research Worksheet for **L02**

**Student Name:**

**Class:**

**Date:**

This worksheet is designed for you to **investigate** how the role of testing impacts in Systems Development. It is important that you remember that testing can be carried out on a number of applications not just programming but also on a number of different platforms such as portable and fixed devices.

This worksheet for **L02** requires you **to use the E-Learning Materials & Supplied Videos** to find the information required to answer the questions.

As **part of your research** to gather evidence, you are required to demonstrate an **understanding** of the **Software Development Life Cycle**.

As **part of your research** to gather evidence, you are required to **describe recognized test strategies** and **techniques** used in the testing of software and **describe the types of testing currently in use within the software development sector**.

**Q1.** List **3** types of **program errors**?

**A1.**

**Q2.** What is meant by a **syntax error**?

**A2.**

**Q3.** When testing software packages what is meant by the term **Statistical Testing**?

**A3.**

**Q4.** What is meant by the term **Debugging**?

**A4.**

**Q5.** List the **5** main **Testing Stages**?

**A5.**

**Q6.** What is meant by the term **Test Strategy**?

**A6.**

**Q7.** What is meant by the term **Desk Checking**?

**A7.**

**Q8.** What types of information must be included in a **Testing Report**?

**A8.**

**Q9.** Why should a software program include **Internal Documentation** and give an example of this type of documentation?

**A9.**

**Q10.** Describe **Functional Testing**?

**A10.**

**Q11.** Describe **Usability Testing**?

**A11.**

**Q12.** Describe **Defect Testing**?

**A12.**

**Q13.** What is meant by the term **Beta Testing**?

**A13.**

**Q14.** Describe **System and Acceptance Testing**?

**A14.**

**Q15.** What is meant by the term **Direct Implementation**?

**A15.**

**Q16.** What is the benefit of **Pilot Running** a system?

**A16.**

**Q17.** What was the **Y2K bug**?

**A17.**

**Q18.** What factors contributed to the **Denver Airport Baggage System Disaster**?

**A18.**

**Q19.** List a notable **engineering** software disaster from the last 20 years?

**A19.**

**Q20.** What role did software play in the **Airbus A320** crash?

**A20.**

When completed **Save AS L02 Research (Part B) Your Initials** inside your work folder **Mon AM**

**Submit** to [SZhu@glasgowclyde.ac.uk](mailto:SZhu@glasgowclyde.ac.uk) **NO LATER** than **Tuesday 7th October 2014**

**Follow the same posting Instructions as per before,**

**Subject:** **L02 Research (Part B) Your Initials – Mon AM**

**Message:**

Hi

I have attached the file **L02 Research (Part B)**

You’re Name

HNDCOMSD-F2A-C

H181 34 – Testing Software

**Next week** we will **review** Research Exercises A and B within the class environment.