# IAT – Practical exercise – [Software Quality Assurance and Testing]

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| IAT industry area: | Software Development |
| **Signature discipline:** |  |
| **Micro Credential / Micro Skill title:** | SQAT |
| **Expected duration** (hours): | **1 hour** |
| **Product Lead Organisation:** | **MQU** |

Week 1 of software quality fundamentals concepts and quality process. This is divided into the following submodules

* Introduction to software quality terminologies
* Introduction to software quality fundamentals
* Introduction to the quality process and SDLC models
* Introduction to the principles of testing

## Assessment Details

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| **Assessment Type:** | Practical exercise - setup of Visual studio |
| **Assessment Release Date/Week:** |  |
| **Assessment Due Date:** |  |
| **Submission Details:** | Complete and submit via LMS. |
| **Contact:** | Lead facilitator |
| **Total Marks:** |  |
| **Passing Marks:** | N/A |
| **Number of Attempts:** | 2 |

## Learning Outcomes

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| **Learning Outcomes** | **Details** |
| LO1 | Implement unit and regression tests on a small scale project. · |
| LO2 | Design and execute a process for acceptance testing. |
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## Note for SMEs

*This is a take home written questions for the students. Mark according to the materials covered in Week 1- SQAT.doc.*

## Knowledge Assessment

*This is a Practical knowledge Assessment. It consists of several open book instructions, that will be deployed on LMS and is set up as auto-marked.*

## Take home questions

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| **Description:** | *Familiarise and setup VSCode in your machine following* [*https://code.visualstudio.com/docs/introvideos/basics*](https://code.visualstudio.com/docs/introvideos/basics)  *and create, build and execute a new JavaScript file* |

To assess underpinning knowledge. Provide questions and indicate correct answer.

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| **Question.** | **Details of Question** |
|  | Setup VSCode following <https://code.visualstudio.com/docs> |
|  | Review the *following* [*https://code.visualstudio.com/docs/introvideos/basics*](https://code.visualstudio.com/docs/introvideos/basics) |
|  | Create a new folder via File -> New folder |
|  | Create a new javascript file “Hello.js”   1. With your project open in Visual Studio, right-click on a folder or your project node in Solution Explorer (right pane), and choose Add > New Item. ... 2. In the New File dialog box, under the General category, choose the file type that you want to add, such as JavaScript File, and then choose Open.   Reference: https://learn.microsoft.com/en-us/visualstudio/javascript/write-and-edit-code?view=vs-2022 |
| 5. | In the source code, write the following  Console.log(‘Hello world’)  Choose Run and observe the terminal output  Submit the screenshot of the terminal output in the LMS |
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## Marking Guide

*Refer to the answers column*