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| Task 1 |
| **Toolkit**  -ESP8266\_12  -3 Double A batteries  -4x female to male DuPont cables  - USB to serial chip  -Mini Breadboard  -Mini USB Cable  **Task**  Please read the following task. When you are ready to start please say “Ready”.  In this task we would like you to Connect the ESP8266\_12 to the PC via the supplied serial to USB chip, power the chip and verify communication. Please follow the guide on the wiki to do this.  What was the heap size on the esp8266?  Heap size: \_\_\_\_\_\_\_\_  Thank you, this is the end of Task 1.  We will ask you to start the next task shortly. |

Observation Sheet P: \_\_\_

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| Task #1 | | Connect the ESP8266\_12 to the PC via the supplied serial to USB chip | | |  |
| Description: The user must be able to achieve serial communication and supply power to the esp8266\_12 chip by following the wiki guide. | | | | | |
| Completed (Y/N): | |  | | | |
| Time spent on task: | |  | | | |
| Action Sequence | | | User Comments | Observer Comments | |
|  | 0 (located correct section in guide) | |  |  | |
| 🞏 | 1 | |  |  | |
| 🞏 | 2 | |  |  | |
| 🞏 | 3 | |  |  | |
| 🞏 | 4 | |  |  | |
| General Comments | | | | | |

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| Task 2 |
| **Toolkit**  -ESP8266\_01  -9x female to male DuPont cable.  -mini breadboard  -Serial to USB chip  -micro USB cable.  -resistor.  **Task**  Please read the following task. When you are ready to start please say “Ready”.  In this task we would like you to Connect the ESP8266\_01 to the PC via the supplied serial to USB chip, and power the chip. Please follow the guide on the wiki to do this.  What response to issuing heap size command?  Response: \_\_\_\_\_\_\_\_  Thank you, this is the end of Task 2.  We will ask you to start the next task shortly. |

Observation Sheet P: \_\_\_

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| Task #2 | | Connect the ESP8266\_01 to the PC via the supplied serial to USB chip, and power the chip. | | |  |
| Description: The user must be able to achieve serial communication and supply power to the esp8266\_01 chip by following the wiki guide. | | | | | |
| Completed (Y/N): | |  | | | |
| Time spent on task: | |  | | | |
| Action Sequence | | | User Comments | Observer Comments | |
| 🞏 | 0 (located correct section in guide) | |  |  | |
| 🞏 | 1 | |  |  | |
| 🞏 | 2 | |  |  | |
| 🞏 | 3 | |  |  | |
| 🞏 | 4 | |  |  | |
|  | 5 | |  |  | |
|  | 6 | |  |  | |
| General Comments | | | | | |

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| Task 3 |
| Please read the following task. When you are ready to start please say “Ready”.  In this task we would like you to flash the NodeMCU firmware to the esp8266\_12 chip. Follow the guide from the wiki.  What is the result of issuing “chip id” from the commands section of NodeMCU.  result: \_\_\_\_\_\_\_\_  Thank you, this is the end of Task 3.  We will ask you to start the next task shortly. |

Observation Sheet P: \_\_\_

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| Task #3 | | Flash the NodeMCU firmware to the esp8266\_12 chip | | |  |
| Description: The user needs to be able to flash new firmware, by following the wiki guide on the topic. | | | | | |
| Completed (Y/N): | |  | | | |
| Time spent on task: | |  | | | |
| Action Sequence | | | User Comments | Observer Comments | |
| 🞏 | 1. Locate the correct section in the wiki. | |  |  | |
| 🞏 | 1 | |  |  | |
| 🞏 | 2 | |  |  | |
| 🞏 | 3 | |  |  | |
| 🞏 | 4 | |  |  | |
|  | 5 | |  |  | |
|  | 6 | |  |  | |
| General Comments | | | | | |

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| Task 4 |
| Please read the following task. When you are ready to start please say “Ready”.  In this task we would like you to write a very simple lua function, but referring to the wiki section on lua to aid with syntax. The function below is written in pseudo code. Please rewrite it in Lua. If you are already familiar with the lua scripting language please inform us before undertaking this task.  <pseudo code>  Public function ( Dictionary<int, double> armor ) //dictionary aka hashmap  {  string s = "you took damage of: ";  int i = Random.nextInt(10); //between 1 and 10  return s+ armor[i]  }  </code>  How did you do the dictionary (aka hashtable / hashmap) in Lua?  answer: \_\_\_\_\_\_\_\_  Thank you, this is the end of Task 4. |

Observation Sheet P: \_\_\_

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| Task #4 | | write a very simple lua function | | |  |
| Description: The user needs to be able to refer to the wiki to quickly get past any lua knowledge gaps. | | | | | |
| Completed (Y/N): | |  | | | |
| Time spent on task: | |  | | | |
| Action Sequence | | | User Comments | Observer Comments | |
| 🞏 | 1. Find the correct section in the wiki | |  |  | |
| 🞏 |  | |  |  | |
| 🞏 |  | |  |  | |
| 🞏 |  | |  |  | |
| General Comments | | | | | |