**Practical Endorsement – skills log** Name:

**Activity – PAG2.1 Determining Young Modulus**

|  |
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| **1.2.1 Practical skills assessed** |
|  | **Detail** | **Achieved** | **Date** |
| (c) | Follow written instructions |  |  |
| (d) | Make and record observations/measurements |  |  |
| (e) | Keep appropriate records of experimental activities |  |  |
| (f) | Present information and data in a scientific way |  |  |
| (g) | Use appropriate software tools to process data, research…. |  |  |
| (h) | Use online and offline research skills… |  |  |
| (i) | Correctly cite sources |  |  |
| **1.2.2 Use of apparatus and techniques** |
| (a) | Use appropriate analogue apparatus… |  |  |
| (b) | Use appropriate digital instruments… |  |  |
| (c) | Use methods to increase accuracy of measurements…. |  |  |
| (e) | Use of calipers and micrometers…digital or Vernier scales |  |  |
| **Skills Focus** |
|  | Write up to include:Completed calculation of Young Modulus including correct conversion of units |  |  |
|  | Referenced actual value of Young Modulus for Steel |  |  |
|  | Explanation of sources of uncertainty and calculation of percentage uncertainty in Young Modulus |  |  |
|  | Comparison of calculated and actual error in Young Modulus value |  |  |

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