Psychological Measurement Road to May 23rd

(….or thereabouts)

The purpose of this document is to provide a checklist of tasks that are recommended for planning and writing the Psychological Measurement Portfolio.

# Part 1 – Technical Manual

In this part you are responding to one of the two case studies provided on Moodle ([click here for link to the file](https://moodle.mmu.ac.uk/mod/resource/view.php?id=3705165)) and providing a solution to the problem that has been provided. The first step is to carefully read the chosen case study and identify key words that imply psychological constructs. For a guide to doing this see Week 4’s workshop materials ([Click here for link to video](https://moodle.mmu.ac.uk/mod/page/view.php?id=3845091)).

Once you have identified the constructs that are of interest in the case study, you need to choose at least 2 and match these to an appropriate measure from the list provided ([click here for link to list of measures](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fraw.githubusercontent.com%2FOliJimbo%2FStudent_Materials%2Fmain%2FAssignment%2520Datasets%2FShort_List.xlsx&wdOrigin=BROWSELINK)).

On choosing the measures that you will use to assess the construct of interest, you write an introduction section that presents the construct and measure you have chosen, as well as evidence suggesting that it is valid for the purpose you have chosen. This will form the introduction section of the manual.

You will then write a method section detailing the measures that you have chosen. This will include the characteristics of the participants for each measure that make up the norm group (taken from the coding document), approximate date that the data was collected. It will also include the number of items in the scale, and scoring method (sum of items or mean).

You will then write a section detailing the Psychometric Properties of the scale. This is where Jamovi will be used. The section will include norm group information such as means and standard deviations, percentiles for the sample or subsamples (e.g. if you are splitting by gender or first language you would have a table or row for each) – this was covered in Week 2 [(Click here for Week 2 Moodle Page)](https://moodle.mmu.ac.uk/course/view.php?id=152792&section=4); reliability information (alpha or omega – [Click here for Week 4 where assumptions were started](https://moodle.mmu.ac.uk/course/view.php?id=152792&section=6)) (this was covered in Week 5 – [click here for Week 5 Moodle Page)](https://moodle.mmu.ac.uk/course/view.php?id=152792&section=7) , standard error of measurement, standard error of difference. For a short summary of these issues refer to the Twisted Pear E-Book [(Click here for link to twisted pear e-book)](https://thetwistedpear.github.io/)

You will then write a short section about administering the scales; are they time sensitive? Should a computer be used?

## Checklist for part 1

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| Chosen Case Study | ([click here for link to the file](https://moodle.mmu.ac.uk/mod/resource/view.php?id=3705165)) | Tick |
| Identified Key Words | ([Click here for link to video](https://moodle.mmu.ac.uk/mod/page/view.php?id=3845091)). |  |
| Selected Constructs |  |
| Found Measures | ([click here for link to list of measures](https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fraw.githubusercontent.com%2FOliJimbo%2FStudent_Materials%2Fmain%2FAssignment%2520Datasets%2FShort_List.xlsx&wdOrigin=BROWSELINK)). |  |
| Searched for validation literature |  |  |
| Written Method section |  |  |
| Calculated Norm group characteristics | 2 [(Click here for Week 2 Moodle Page)](https://moodle.mmu.ac.uk/course/view.php?id=152792&section=4); |  |
| Checked reliability assumptions | [Click here for Week 4 where assumptions were started](https://moodle.mmu.ac.uk/course/view.php?id=152792&section=6)) |  |
| Computed appropriate reliability scores | [Click here for week 5 Moodle page](https://moodle.mmu.ac.uk/course/view.php?id=152792&section=7) |  |
| Computed Standard Error of Measurement and Difference | [Click here for Week 6 Moodle Page](https://moodle.mmu.ac.uk/course/view.php?id=152792&section=8) |  |
| Write short description of administration method |  |  |

# Part 2

In Part 2 you are presenting sample feedback for a person who has completed your measures. This is not the person in the case study and so you do not need to draw any conclusions about the case specifically in this part.

You will be given a set of scores to work with. First you will complete a record sheet that will provide you with the relevant information that you will need for the report. You will then write a report based on these scores. Some examples of the type of language used to give feedback is given in the Twisted Pear e-Book [(Click here for test feedback guidance)](https://thetwistedpear.github.io/TBG.html). This report should include a brief introduction to yourself, the purpose of the test, the measures that were used and why, each score along with the margin of error surrounding it (68% confidence interval) and a comparison with the norm group (e.g. T scores or percentiles). A checklist for the things to include in Part 2 can be found in the Portfolio template document [(click here for link to portfolio template document)](https://moodle.mmu.ac.uk/mod/resource/view.php?id=3773443) but is repeated below too.

## Checklist for Part 2

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| **Sample Feedback:** *Making appropriate use of test results, providing accurate written and oral feedback to clients and candidates*  For the assessment of this unit you are required to *append* to feedback a complete set of calculations (e.g. Test Data Record Sheet) and plotted 68% percentile Confidence Interval (68% percentile CI) for each score. Please also see marking criteria within the unit handbook | | |
| 1 | Do you introduce yourself and/or the organisation? |  |
| 2 | Do you remind the reader of the purposes of the report? |  |
| 3 | Do you introduce each measure and briefly describe how and when each was administered? |  |
| 4 | Do you give a brief description of the construct each tool measures before describing the score for each test? |  |
| 5 | Do you give a rationale and justification for the use of each measure before describing the score for each test? |  |
| 6 | Do you explain clearly the nature of norm group comparison and their relevant characteristics? |  |
| 7 | Do you describe the meaning of the scale (e.g. percentiles) or scales (e.g. percentiles and T scores) accurately and in terms which the test taker could understand? |  |
| 8 | Do you communicate clearly and accurately the score for each measure? |  |
| 9 | Do you communicate clearly and accurately the confidence limits associated with each score? |  |
| 10 | Are any statements implications (e.g. risk,) supported by background information for the test (e.g. validity)? |  |
| 11 | Do you communicate clearly and accurately any score comparisons made across the measures taken? |  |
| 12 | Do you give clear guidance as to the appropriate weight to be put on the findings (e.g. such tests are only one source of information about abilities and values)? |  |
| 13 | Have you briefly mentioned any ethical guidelines associated with the report? |  |
| 14 | Do you give clear closure to the feedback report? |  |
| 15 | Have you appended the record sheet and interval plots |  |

# Part 3

In the final part of the portfolio you will discuss some of the decisions that you made throughout the earlier sections and justify these with critical evaluation of the literature. Examples include: The decision to use one measure over another (e.g. SD3 over Dirty Dozen); the decision to only focus on one facet of personality (e.g. anxiety from Neuroticism); the decision to use Alpha over Omega; the decision to use Classical Test Theory over Item Response Theory).

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| --- | --- |
| Clearly stated your chosen decisions |  |
| Weighed up the benefits of both sides |  |
| Presented a valid argument for the decision that you made |  |