

**Moodle reporting terms of reference**

Overview

This document provides guidance for the outcomes and deliverables for the Moodle reporting. Apprentices complete multiple-choice exams and built in Moodle reports identify the overall scores and individual question successfully completed. The Moodle reports can be downloaded in csv format and this will be used to identify questions that are performing well/not well. The relevant statistics are to be identified from the overview in in this reference (Ding and Beichner, 2009)

A test site had been created on a VMWare ESXi instance (<https://192.168.1.86/moodle>) . This uses Ubuntu as the OS and Moodle installed and configured. Once relevant statistical methods have been identified a Moodle exam (quiz) will be uploaded. Exam will be tested by identifying questions which will be answered:

* incorrectly even when the exam is passed (poor performing questions)
* correctly when the exam is failed (poor performing questions)
* incorrectly when the exam is failed (well performing questions)
* correctly when the exam is passed (well performing questions)

To automate the testing python/selenium/chrome code will be created.

The live site will be configured on http://assessment.accelerate-people.co.uk/

Outcomes

Systems to measure the performance of multiple-choice exams hosted on Moodle

Benefits/Drawbacks

Moodle allows complex questions types including mathematics/coding. Hosting a system is cheap compared to alternatives ( [www.questionmark.com](http://www.questionmark.com)). It also allows access to all statistics. Drawbacks include setup time and staff training.

Deliverables

Test Moodle site

Live Moodle site

Sample reports identifying well performing / poorly performing questions