Case study: Multiple choice questions built in Minerva

This case study explores an example of online assessment using multiple choice questions built in Minerva to assess postgraduate engineering students. Multiple choice questions are a quick and easy way to assess learner recall of key ideas, concepts and theories.

The assessment context

This assessment was designed to assess learners studying at master's level for an online MSc in Engineering Management. Learners were completing the module Innovation, Design and Creative Engineering worth 15 credits.

The multiple choice questions represented 20% of the final awarded mark for the module.

Assessment criteria and set-up

Multiple choice questions were used to assess learner understanding of material covered in one unit of the module. The focus was design policy in theory and practice, and learners were asked to complete 20 multiple choice question to check their engagement with the topic.

The test was designed with this rubric:

- 20 multiple choice questions drawn randomly from two pools of ten questions
- Open to learners over a period of one week
- Learners attempt the test once within one hour
- Test set to time out after 15 minutes of inactivity, and submit automatically
- Each question is worth one mark

The assessment

The assessment comprised multiple answer and single answer questions devised to assess learner engagement with the design theories, strategies and policies discovered in the relevant unit of the module.

For single answer and multiple answer questions, correct and incorrect feedback was provided to learners explaining the correct answer. At present, Minerva does not allow you to provide specific feedback related to the answers selected.

Find out more

To learn more about using multiple choice questions to assess learners, see the relevant section of the digital practice website. For technical support about using tests and surveys in Minerva see the Tests and Surveys Guide.