LEEDS METROPOLITAN UNIVERSITY

Virtual Learning Tools

Our online learning tools replicate real practice in virtual locations, enabling users to develop real life skills and reflect on experiences.

Building Performance and Evaluation: Evaluation of an energy efficient development

Developed in partnership with Toolwire, this tool is designed for students and professionals from a diverse range of disciplines related to sustainability, energy or building energy performance positions, including architects, designers, construction managers, building services engineers and quantity surveyors. It aims to develop the skills required to collate, evaluate and present information on building performance and factors that affect building function, energy performance and comfort.

The tool incorporates some of the most current research observations, embedding them within a large scale design and build scenario. Learners are exposed to energy efficiency measures in housing, methods of enquiry, assessment and investigation and the consequences of not addressing energy efficiency are explored. Learners will make informed judgements on complex and unpredictable issues which reflect real life scenarios. They will develop and evaluate concepts, theories and models which apply to their work or the area that they are interested in and will produce their own ideas and practical theories, developing innovative responses in complex and unpredictable situations.

Learners are safely exposed to issues currently affecting practitioners and those working within the construction industry. Using the virtual learning environment, they can navigate through the scenes and scenarios, all based on research and real world experiences, without the risk of making mistakes that would have social, economic or legal consequences. Engagement with the public and professionals at all levels are covered within the learning as well as the media exposure that surrounds all significant projects.

This learning platform can be used by both qualified practitioners and university students as part of their studies. It exposes the learner to issues affecting built environment as a whole and, through the understanding gained, how significant efficiency measures can be made. A key feature of the of the tool is that the learners will need to consider issues beyond their immediate area of practice, and take a critical approach to the thinking and assumptions which they and others are using.

Learning Outcomes

- To develop an understanding of the issues of project control and governance
- To develop the ability to evaluate the design and management of the construction process
- To develop the ability to recognise issues that affect building performance and energy consumption
- To develop the ability to recognise discrepancies, conflicts and other non-compliance and their impact on recommendations for remedial action
- To apply critical thinking and critical reflection skills
- To develop research and analysis skills

Price

The cost per individual learner is £400. For groups of learners or bespoke package prices please contact us at **virtuallearning@leedsmet.ac.uk**

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For more information please visit
www.leedsmet.ac.uk/virtuallearning
or email **virtuallearning@leedsmet.ac.uk**