

UQx Course Catelog



Essential Tools For The Low Carbon Economy

Current Starts: May 16, 2017



Introduction to Psychological Research Methods

Current Self-Paced



Making Sense of Climate
Science Denial

Starting Soon Starts: May 30, 2017 - Self-Paced



UQx

Deep Learning through
Transformative Pedagogy



UQx

IELTS Academic Test
Preparation



UQx

Introduction to Social
_Psychology

O MOOCS

Starts: May 15, 2017

Self-Paced

Self-Paced









Scenario

Your company's Scope 1 carbon footprint is 2,300,000 (CO₂e, making it liable under the Tasland Emissions Trading Scheme. You must purchase one (1) allowance or offset for every ICO₂e of your company's liability, therwise the government will fine you a penalty price (SSD) for every ICO2e of your shortfall. You also have the option of implementing emissions abatterent troilects in order to lower your carbon footprint and therefore your compliance is liability.

Goal:

- · Achieve the lowest possible Average Cost of Compliance (\$/tCO2e); and
- · Achieve a Penalty Cost of \$0.

Instructions:

- 1. Drag the options into ascending order (i.e. lowest to highest) based on their cost per tCO2e. This will help you to prioritise the lowest cost options.
- 2. Select the cheapest options by clicking on the checkbox next to the option name.
- 3. If allowances or offsets are selected, you will need to decide on the amount to purchase (a limit may apply).
- 4. If an abatement project is selected, the amount of avoided CO2e will be fixed.
- 5. The selected options will be added to the Compliance Activities and Total Cost graph to help you visualise if compliance has been met. The Penalty Cost and Average \$\(^{\text{CO}}_{2}\)e are also displayed, to help you meet your goals.

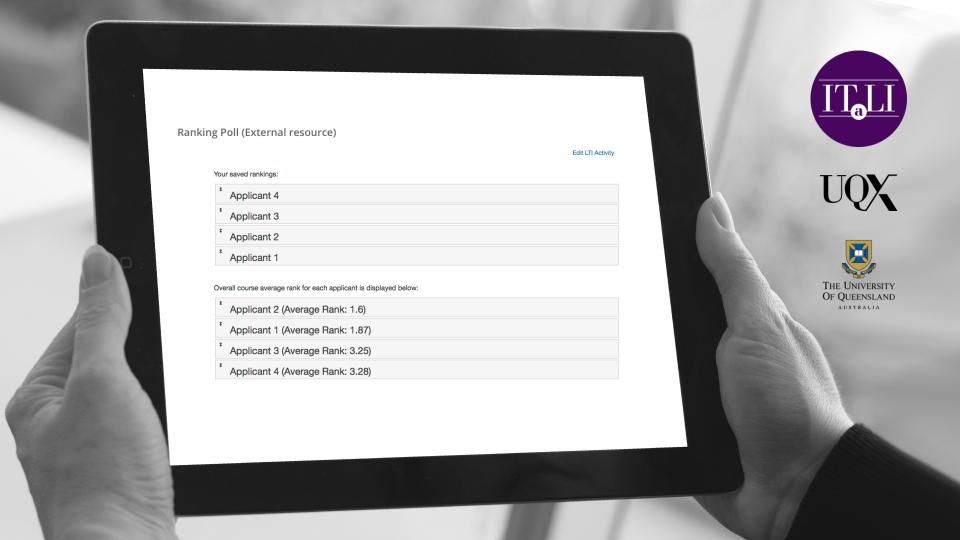


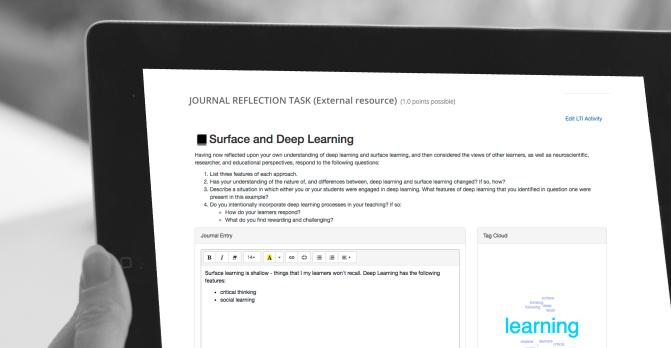






Carbon101x Essential tools for the low carbon economy





The reflective journal entry has been saved. Have you considered how you could improve your use of deep learning processes both as a teacher and as a learner? Have you thought about what might motivate a learner to engage more deeply with an idea now that you have considered the different

Feedback:

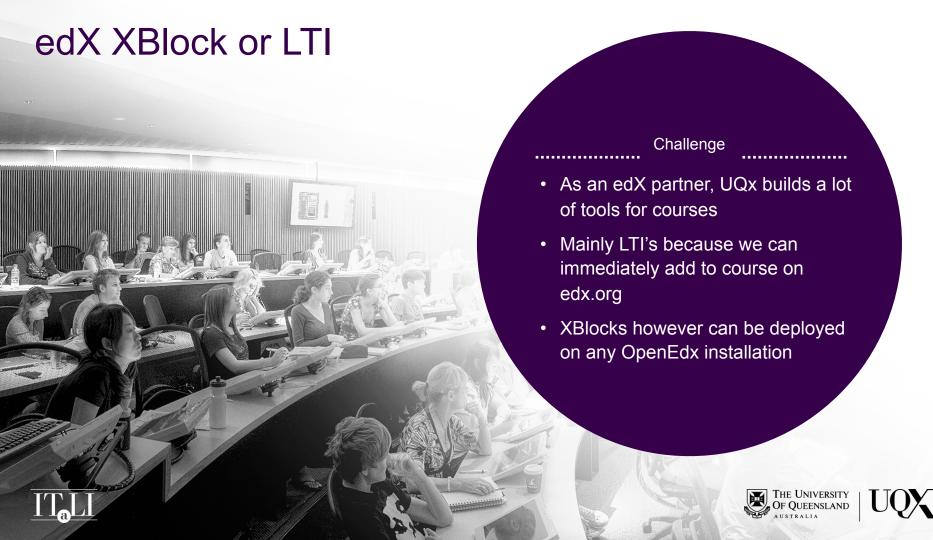
perspectives?











edX XBlock vs LTI: And the winner is both

- Solution
- Embed an XBlock runtime in an LTI container
 - More lightweight than OpenedX as a LTI Provider
- Can deploy on edx.org immediately
- Functionality available as XBlock
- XBlocks can be deployed to other LMSs





Implementation

- Django LTI Tool Provider

 (https://github.com/Harvard University-iCommons/django-auth-Iti)
 - MultiLTILaunchAuthMiddleware
 - LTIAuthBackend
 - @lti_role_required(['Instructor',
 'Student'])
 - request.LTI.get('user_id')
- XBlock Dev Workbench (https://github.com/edx/xblock-sdk)





Implementation

Edit XBlock

POLL

How long have you been studying with us?

- A very long time
- Not very long
- ☐ I shall not say
- Longer than you

Submit

Change xblock activity

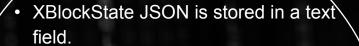






In Progress

Code Available Soon on Github



- Moving to Postgres Database (NoSQL) & using JSONField for state storage
- django-auth-lti needs grade sending
- Get correct or incorrect from Block
- Can I get the Studio XBlock UI?
- CSS





THANK YOU

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