MSc in Engineering
Overview

First fully online masters in Engineering

Supports chartered engineer status

Intended to be a mixture of self study and tutor support

Approval panel work shaped the degree to incorporate collaborative elements
Leadership and Teamwork

RQ1: What is the make-up of leaders’ personal managerial qualifications?

RQ2: What qualifications matter most in leadership tasks?

<table>
<thead>
<tr>
<th>Engineering education or research</th>
<th>Healthcare</th>
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<tbody>
<tr>
<td>is reliable</td>
<td>has practical, hands-on, field-related experience</td>
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<tr>
<td>gives positive feedback</td>
<td>gives positive feedback</td>
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<tr>
<td>communicates clearly and unambiguously</td>
<td>expresses opinions assertively</td>
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<tr>
<td>inspires and motivates others</td>
<td>accepts critical feedback</td>
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<tr>
<td>keeps others up-to-date and shares info</td>
<td>is balanced and at peace with him/herself</td>
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<tr>
<td>communicates negative issues face-to-face</td>
<td>is reliable</td>
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<tr>
<td>accepts critical feedback</td>
<td>takes responsibility for the atmosphere</td>
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<tr>
<td>apologizes when necessary</td>
<td>communicates negative issues face-to-face</td>
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<tr>
<td>remains calm and collected even in crises</td>
<td>makes sure his/her messages are understood</td>
</tr>
<tr>
<td>is good at summarizing</td>
<td>keeps others up-to-date and shares info</td>
</tr>
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Lappalainen (2017)
Model of Flexible Learning

- Increased autonomy and self direction by students is required
- Increased sophistication of resources is required
- As the physical presence of tutors diminish
- Increased understanding of contexts is required

Bostock 2018
Elements of Online Course

High quality authoring of content in Forge
http://showcase.uhi.ac.uk/previews/ESIF_Eng/Design_Process_Project_Management/

Clear explanation of environment, context and requirements in the digital space

Increased lecturer presence through video and images in Brightspace

Creation of assessed groupwork projects and discussions for experiential teamwork

https://brightspace.uhi.ac.uk/d2l/home
Next Steps

Agree the digital spaces which course elements will be located in – rich and varied choices

Look at design elements that re-inforce clarity and good navigation and set a standard for the network
References
