



# University of HUDDERSFIELD

## University of Huddersfield Repository

Gibbs, Graham R., Clarke, Dawn, Teal, Andrew and Lewins, Ann

E-learning as apprenticeship for large numbers

### Original Citation

Gibbs, Graham R., Clarke, Dawn, Teal, Andrew and Lewins, Ann (2009) E-learning as apprenticeship for large numbers. In: C-SAP E-learning conference, 16th January 2009, London. (Unpublished)

This version is available at <http://eprints.hud.ac.uk/id/eprint/5785/>

The University Repository is a digital collection of the research output of the University, available on Open Access. Copyright and Moral Rights for the items on this site are retained by the individual author and/or other copyright owners. Users may access full items free of charge; copies of full text items generally can be reproduced, displayed or performed and given to third parties in any format or medium for personal research or study, educational or not-for-profit purposes without prior permission or charge, provided:

- The authors, title and full bibliographic details is credited in any copy;
- A hyperlink and/or URL is included for the original metadata page; and
- The content is not changed in any way.

For more information, including our policy and submission procedure, please contact the Repository Team at: [E.mailbox@hud.ac.uk](mailto:E.mailbox@hud.ac.uk).

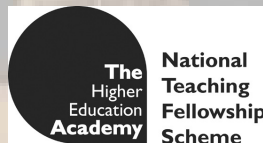
<http://eprints.hud.ac.uk/>

# E-learning as apprenticeship for large numbers

Graham R Gibbs, Dawn Clarke, Andrew Teal

Centre for Research in the Social Sciences, University of Huddersfield

(with Ann Lewins (U. Surrey) and Colm Crowley  
(U. Greenwich))



# The Challenge

Using e-learning to teach Qualitative Data Analysis (QDA) is a challenge

- Skill
- No facts
- Traditional, intensive teaching methods
- Abstract
- Creative

# **RLOs (= Resusable Learning Objects)**

## **usually found in:**

- Concrete, factual based, non-contested topics
  - Chemical properties and reactions
  - Beams in engineering
- **BUT** QDA more like
  - Physical skill (gymnastics)
  - Creativity (textile design)
  - Contested (philosophy)

# How is QDA taught?

Hammersley, 2004, three approaches

1. The craft approach
2. The professional approach
3. Bricoleur

All reject

4. The procedural approach

# Craft approach

- Learning 'at Nellie's knee'
- Form of apprenticeship with senior researcher
- Small numbers
- Focus on practical skills
- Skills caught not taught (Leonard, 2000)

# Professional approach

- Qual. Res. seen as non-partisan, neutral
- Focus on practical tasks
- Do professional job
- Meet criteria of soundness
- Meet ethical guidelines

# Bricoleur

- Post-modern/constructivist approach
- Qual. Res. seen as an art
- Creativity and montage
- Use any methods & learn by doing
- Res. not neutral
- Self-taught, questions all assumptions



# Procedural

What students and Govt. want

- Steps or stages
- Reduces anxiety
- Not creative, thus problem dealing with the abstract
- Good for govt. regulation (learning outcomes etc.)

# Response to massification

- Procedural approach easier to teach and manage
- Craft approach etc. cannot deal with large numbers (Qual. Res. very popular)
- Plus, diversification of approaches.
- New text books esp. on QDA
- BUT learners want to see fine detail of real cases

# REQUALLO to the rescue!

- HEA funded
- 6 exemplars based on real researchers
- Across disciplines and methods
- Produce RLOs - reusable learning objects
- Addresses Hammersley approaches in 5 ways:-

# Elicitation of accounts

- Researchers talk about thinking and creativity involved in actual analysis
- Use text, video and audio. Learners get experience like apprentices
- Making suggestions not possible (unlike senior researcher) but does include commentary
- E.g. Frances on medical-based perspective.
- [Frances on initial template](#)

# Promotes comparison

- Case by case and subject by subject.
- Students see how explanations are created
- Like apprenticeship. Teacher explains how this example is like or unlike novice's example.
- A kind of reverse construct elicitation
- King on template analysis vs. Frances

# Includes procedures

- Steps to go through, moderated by how researchers modify them
- Exemplars, rather than explicit stages
- Steps illustrate thinking and creativity
- Learners must come up with own ideas
- E.g. [Frances on revising her codes](#)

# Feedback

- Each exemplar contains assessments/tests/exercises/notes
- Provide frequent feedback
- Repeatable at student demand
- Builds confidence, reduces anxiety
- E.g. [test on getting the idea.](#)

# Granularity

- Units, exemplars, assets, examples can be used in different pedagogic/methodological contexts
- Role of metadata and guides e.g. learning outcomes.
- Still working on best solution to give flexibility and adaptability
- E.g. [Template analysis video](#)



# Conclusions

- Teaching QDA means teaching creativity
  - RLOs can support this
- RLOs can give information and feedback close to what experts give
- Procedures - not infallible steps, rather they illustrate thinking and creativity
- RLO not perfect, BUT usable with large numbers & anyway cannot assume that experts in apprenticeship model are always supportive.