



Co-funded by the
Erasmus+ Programme
of the European Union

Pathway in Enterprise Systems Engineering (PENS)

Pathway development example BSc Apprenticeships

Georgios Dafoulas

Monday, 23/07/2018

Alcala de Henares



Agenda

- BSc (Hons) Professional Practice in Digital Technology
- Programme rationale
- Market research
- TLA strategy
- Assessment
- Apprenticeship programme framework

Case Study (example)

- To introduce BSc (Hons) Professional Practice in Digital Technology
 - Business Analytics
 - IT Consultancy
 - Software Engineering
 - Network Engineering

Programme rationale

- The DTSP degree apprenticeship generates the highest number a vacancies of any higher and degree apprenticeship both nationally and in London.
- The number of digital apprentices has increased by 21% over the past year.
- 89% of employers reported an apprentice as helping to improve their product or service.
- For every £1 invested in an apprentice, there is £27 economic benefit
- 96% of employers with apprentices say that their business has benefitted as a result.
- Digital apprenticeships are growing at more than double the UK average
- More than 17,000 people started digital or tech apprenticeships in the UK during 2014-15, which is a growth of 21% following on from the previous year.
- Over 80 companies in England have now taken on more than 1,250 students as 'Tech Industry Gold' digital degree apprentices.
- 28 universities now offer Tech Industry Gold accredited degree apprenticeships.

Market research

- At least 60 universities are implementing or planning to implement degree apprenticeships from 2017 onwards.
- 107 universities are now on the Register of Apprenticeship Training Providers.
- The following job titles ranked by the amount of results generated on indeed job search <https://www.indeed.co.uk/jobs>
- England Only
 - IT Consultant – 23,021
 - Software Engineer – 20,046
 - Business Analyst – 17,846
 - Network Engineer – 8,363
- London Only:
 - Business Analyst – 9,328
 - IT Consultant – 8,556
 - Software Engineer – 7,384
 - Network Engineer – 3,300

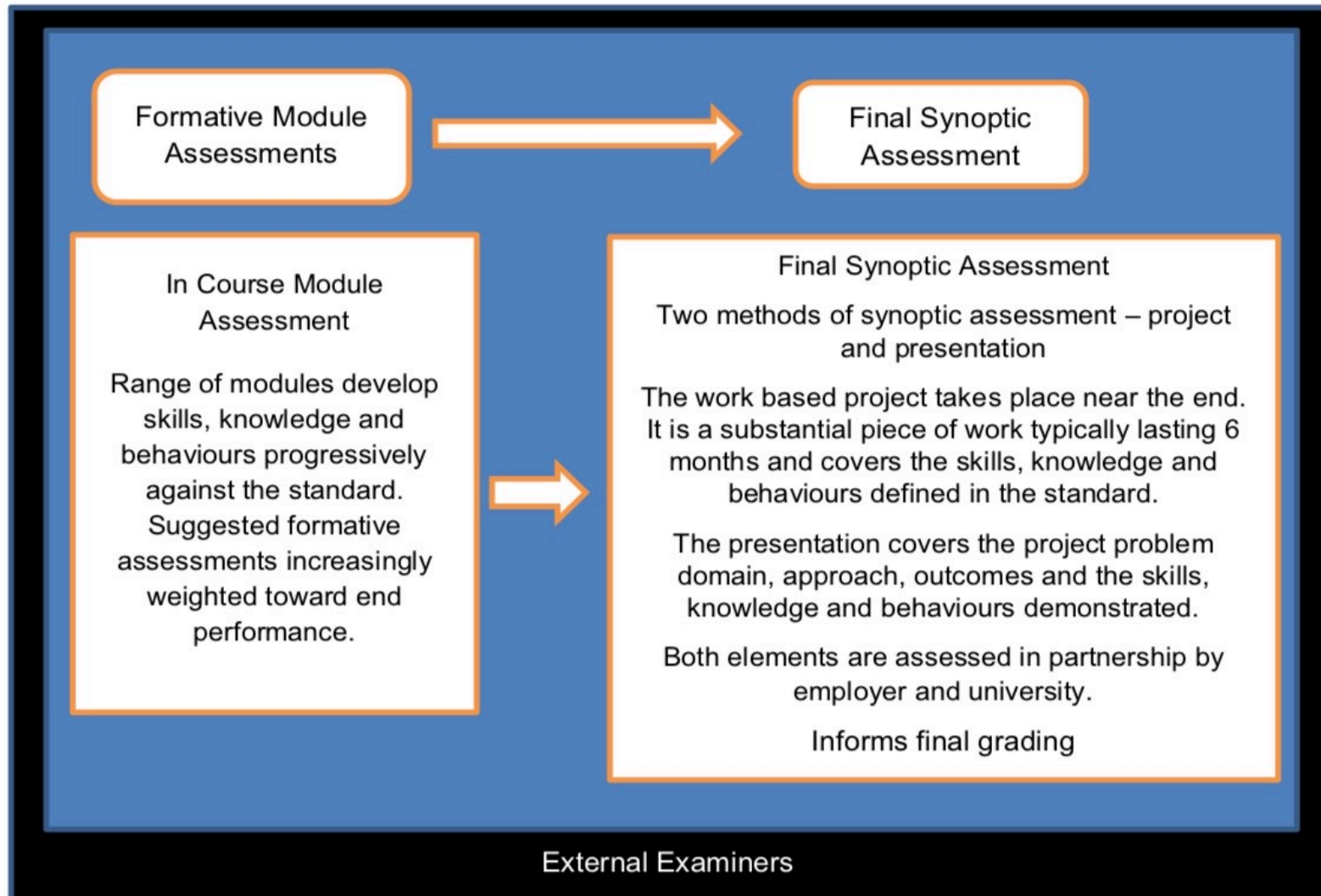
TLA strategy

- An induction and review of progress through workshops and other events
- Computer based/online individual and group exercises
- Peer learning sets
- Simulations and role play
- Structured diagnostic exercises and activities supported by briefing notes
- Completion of learning journals
- One-to-one coaching
- Work-based learning
- Formative feedback on work from tutors through blended approaches including; face-to-face, via email, webcam, MyLearning discussion boards and workshops
- Student-led interaction via online discussion forums including MyLearning
- Self-directed learning facilitated by programme and module handbooks, MyLearning and other learning materials.
- Student Observable Behaviours
- Learning Journals
- Portfolios
- Reflective commentary
- Role play and simulation exercises
- Online 360 Feedback
- Work/practice-based projects
- Reports
- Case Study Analysis
- Presentations.

Assessment

- All apprenticeships in England are required to include an End-point Assessment (EPA) to test that apprentices have demonstrated all the knowledge, skills and behaviours required for full occupational competence as specified in the nationally approved Apprenticeship Standard.
- The requirements for EPA are as follows:
 - **Work-based project** The work-based project takes place near the end. It is a substantial piece of work typically lasting 6 months and covers the skills, knowledge and behaviours defined in the standard.
 - **Presentation** The presentation covers the project problem domain, approach, outcomes and the skills, knowledge and behaviours demonstrated.

Assessment



Apprenticeship programme framework

Level 4	
Professional Portfolio 1 – 20 credits	
Learning and Studying at Work 20 credits	Digital Technology Fundamentals (BA) 80 credits

Level 5			
Professional Portfolio 2 – 20 credits			
Specialist Digital Technology Project 1 (BA) 20 credits	Specialist Digital Technology Project 2 (BA) 20 credits	Specialist Digital Technology Project 3 (BA) 20 credits	Specialist Digital Technology Project 4 (BA) 40 credits

Level 6	
Professional Portfolio 3 30 credits	Final Major Specialist Digital Technology Project (BA) (End-point Assessment) 60 credits
Professional Practitioner Inquiry 30 credits	

g.dafoulas@mdx.ac.uk

Thank you for your attention!

