









PS18

Polytechnic Summit 2018. Lima - Perú

Coventry University, UK

Amela Bogdanovic, Dipl.Ing.Arch., LLB (Hons);

Janet Campbell, MEng CEng MICE,

Andy Reid, MSc

Purdue University, West Lafayette, Indiana, USA Bradley Benhart, MBA,

Soft Skills for Hard Hats





Content

- About Coventry University
- Erasmus + Programme/
- Soft Skills for Hard Hats-Developing Managerial Skills for Construction Workers project rationale and partners
- About CU SIM Centre
- Development of SSHH Project
- Project website and demonstration of on-line tool
- Q & A

Ranked No.12
UK University
Guardian University
Tir

2nd in UK for Teaching Excellence (TEF)

er Education metrics ranking 017 - Gold winner Top 6 for Student Experience

Coventry University - main campus





- Faculty of Arts and Humanities
- Faculty of Engineering, Environment and Computing
- Faculty of Health and Life Sciences,
- Faculty of Business and Law
- Gold for outstanding teaching and learning Teaching Excellence Framework (TEF)
- 2nd in UK for Teaching Excellence (TEF)
 Times Higher Education metrics ranking
 2017
- Top 6 for Student Experience
 The Times and Sunday Times Good
 University Guide 2018
- Ranked No.12 UK University Guardian University Guide 2018
- 97% of graduates employed or in further study
 DLHE survey 2015/16 – six months after graduating
- Queen's Award for Enterprise International Trade 2015

Ranked No.12 UK University

2nd in UK for Teaching Excellence (TEF)

Times Higher Education metrics ranking 2017 - Gold winner Top 6 for Student Experience





School Energy Construction and Environment

- Three distinct areas
 - Energy Oil & Gas
 - Construction Civil Engineering & Building
 - Environment Geography & Disaster Management Humanitarian Engineering
- •Approx. 2000 students
- •100 academic staff
 - 5 Profs/Readers,
 - 70 Principal, Senior & Lecturers,
 - 8 Assistant Lecturers.
 - 8 Technical Supporti Staffsity

2nd in UK for Teaching Excellence (TEF)

mes Higher Education metrics rankir 2017 - Gold winner Top 6 for Student Experience

Erasmus+ Programme

Erasmus+ is the European Union programme for education, training, youth and sport.

It runs for seven years, from 2014 to 2020, with organisations invited to apply for funding each year to undertake creative and worthwhile activities.



Soft Skills for Hard Hats-Developing Managerial Skills for Construction Workers

- •Project duration 2 years
- •October 2016 October 2018

Project partners





About the Project- Rationale (1)Why?

 lack of transversal skills in on - job promoted trade professionals

Aims

Aimed at the first level managers at construction site.

- To use in formal learning setting or individually
- To merges general with vocational education

Target audience

Apprentices, teachers and trainers, businesses/training in construction industry



Ranked No.12
UK University

2nd in UK for Teaching
Excellence (TEF)

Top 6 for Student Experience

About the Project- Rationale (2)

How?

- On-line training tool focusing on "soft skills"
- Combines visual input, individual learner's choices and professional feedback
- Learner's "journey" through everyday decision making scenarios
- Based on the real life scenario/approach used in CU SIM centre.





Ranked No.12 UK University

2nd in UK for Teaching Excellence (TEF)

nes Higher Education metrics ranki 2017 - Gold winner Top 6 for Student Experience









•Multi Sector

- Construction
- Emergency Services
- Oil and gas
- Retail
- Utilities
- Automotive

Ranked No.12 UK University

Guardian University Guide 2018 2nd in UK for Teaching Excellence (TEF)

Times Higher Education metrics ran 2017 - Gold winner Top 6 for Student Experience











Experiential Learning

- Immersive
- Safe
- Feedback
- Reflection

Ranked No.12 UK University 2nd in UK for Teaching Excellence (TEF)

Firmes Higher Education metrics ranki 2017 - Gold winner Top 6 for Student Experience











Practice

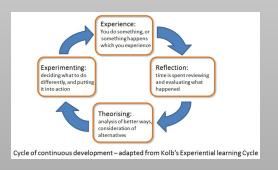
- Learning outcomes
- Scenario and injects
- Feedback
- Observers

Ranked No.12 UK University

Guardian University

2nd in UK for Teaching Excellence (TEF)

imes Higher Education metrics ran 2017 - Gold winner Top 6 for Student Experience



Description

What happened?

Gibbs Reflective Cycle (1988)

> Analysis What sense can you make of the situation?

Action plan

Conclusion

What else could

you have done?

If it arose again what would you do?



1 Open	2 Blind
Known to self and to others	Not known to self but known to others
3 Hidden	4 Unknown
Known to self but not to others	Not known to self or others

Kolb Gibbs Scaffold of learning (ZPD) Johari Learner retention

The Johari Window

What were you thinking and feeling? What was good and bad

Feelings

Evaluation

about the experience?

Ranked No.12 **UK Universit**

Theory

2nd in UK for Teaching **Excellence (TEF)**

Times Higher Education 2017 - Gold winne Top 6 for Student Experience

The Times Good University Guide

Development of the Project Output







Ranked No.12 UK University

Guardian Universit Guide 2018 2nd in UK for Teaching Excellence (TEF)

Times Higher Education metrics ran 2017 - Gold winner Top 6 for Student Experience



Development of the project The approach

- Principles of SIM centre experience replicated on-line
- Complementary learning experience with potential to be either preparation for SIM or authentication of learning
- Which transversal skills? desktop research prior to project application – data from SIM centre
 - Communication,
 - Leadership,
 - Problem solving and
 - Working in teams.



Development of the project Overall framework



Intellectual outputs	IO 1 Teamwork	IO2 Leadership	IO3 Communication	IO4 Problem Solving
Scenario 1 LO	Dealing with difficult people	Planning/organisin g/time management	Active listening	Defining the problem
Scenario 2 LO	Communication	Decision making and prioritising	Non-verbal communication	Creating possible solutions
Scenario 3 LO	Effective delegation	Role model/integrity	Choosing an appropriate mode of communication	Making decision or not making decision
Scenario 4 LO	Influencing	Responsibility	Job site cooperation	Implementation
Scenario 5 LO	Supporting	Motivation	Communication with different stakeholder	Lessons learned

Ranked No.12 UK University

2nd in UK for Teaching Excellence (TEF)

> nes Higher Education metrics rankii 2017 - Gold winner

Top 6 for Student Experience

IO1 TEAMWORK

Dealing with difficult	Communication
people	
At the end of the course	At the end of the course
the learner understands	the learner will
that as a foreman you will	understand key skills
need to identify the	required to run an
disruptive behaviour,	effective team meeting.
understand the group	The learner will
dynamics and the	appreciate importance of
reactions of the group	asking instead of telling
and lastly address the	approach, listening
issue with honesty and	attentively, questioning,
tact. The learner also has	building consensus amor
learned a basic strategy	meeting participants,
can to deal with difficult	effective participation of
people: Step 1:	all team members. The
Acknowledge the	learner will understand
problem, Step 2: Draw	importance of his role in
attention to the	keeping conversation
behaviours, Step 3:	flowing in the direction o
Determine the solution,	the team's goal as well a
Step 4: Make them	effectively summarising
accountable."	decisions and assigning
	actions

At the end of the course the learner will be able to understand why is it the

At the end of the course the learner will be able to understand why is it the important to delegate. The learner will learn strategies and be able to understand key questions related to delegation:

1. What task can be

- What task can be delegated?
- When is delegating necessary?
 To whom to
- delegate?
 4. How to delegate?
 The learner will also understand that responsibility and control

of the delegated task remain with him.

At the end of the course the learner will realise how influence can help him work more effectively with the team. The learner will able to implement several strategies to implement that skill. In the construction environment influence is most effectively exercised by focusing on actions rather

than words, by building

consistent whilst being

flexible and assertive.

being reliable and

trust with co-workers, by

Influencing

Supporting At the end of this course

the learner will be able to recognise and provide appropriate support for The learner will identify some key skills required to provide appropriate support to his team such as making sure they have right tools for the requested task, provide encouragement, praise and constructive feedback, be available for his team for ideas. questions, suggestions and complaints too.





Development of the project Intellectual Output Learning Outcome

Development of the project How did we do it?

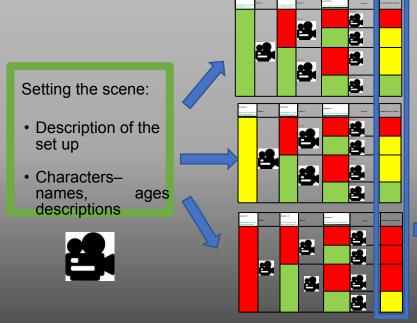
- Decision tree format
- User's perspective semi immersive listens, reads, watches and through immersion virtually acts – encompassing all learning styles
- Feedback general feedback related to the skill and individual scenarios' feedback
- Evaluation: external experts review/report and testing with the users





Development of the project Intellectual Output Framework





Scores:

Good response

Medium
response

Bad response

FEEDBAC

Ranked No.12
UK University

2nd in UK for Teaching Excellence (TEF)

imes Higher Education metrics rank 2017 - Gold winner Top 6 for Student Experience

Development of the project Collaborations

 Process of working on Erasmus + project – exchange/ transfer of knowledge with partners -Open University- Netherlands



Ranked No.12 UK University Guardian University Guide 2018 2nd in UK for Teachin Excellence (TEF)

Top 6 for Student Experience

The Times and Sunday Times



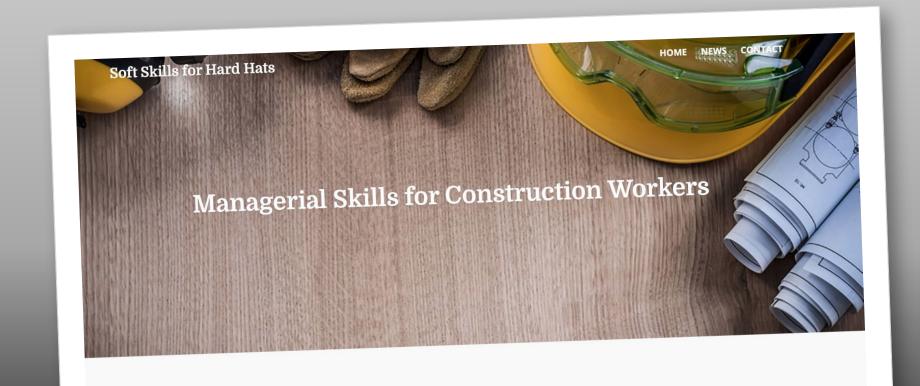
Challenges

• Limitations of on line platforms to enable spontaneous responses – "the journey" through scenario is pre-set

Time and funds available to produce high quality output

- Supporting partners in scenario writing
- Language limitations / Cultural differences
- Project management and implementation







Project website and on-line tool

- https://softskillshardhats.eu/
- https://softskillshardhats.eu/course/team work/



Ranked No.12
UK University

2nd in UK for Teaching Excellence (TEF)

imes Higher Education metrics ran 2017 - Gold winner Top 6 for Student Experience

