Nailing it!
ePortfolios on the Housebuild

BAY OF PLENTY
POLYTECHNIC
TAURANGA
Te Kuratini o Poike

Profile

Student profile

- 75% School leav
- Happy to have
- Kinaesthetic
- Tactile
- Active
- Discovery

Graduate profile

- y Questionnaire
- yer's expectations
- r supervision
- c building activities
- nderstand the industry
- Function of a building site
- Safety and productivity

The Journey!

Industry requirements

Theory to Practice

Evidence based practice

Experiential learning

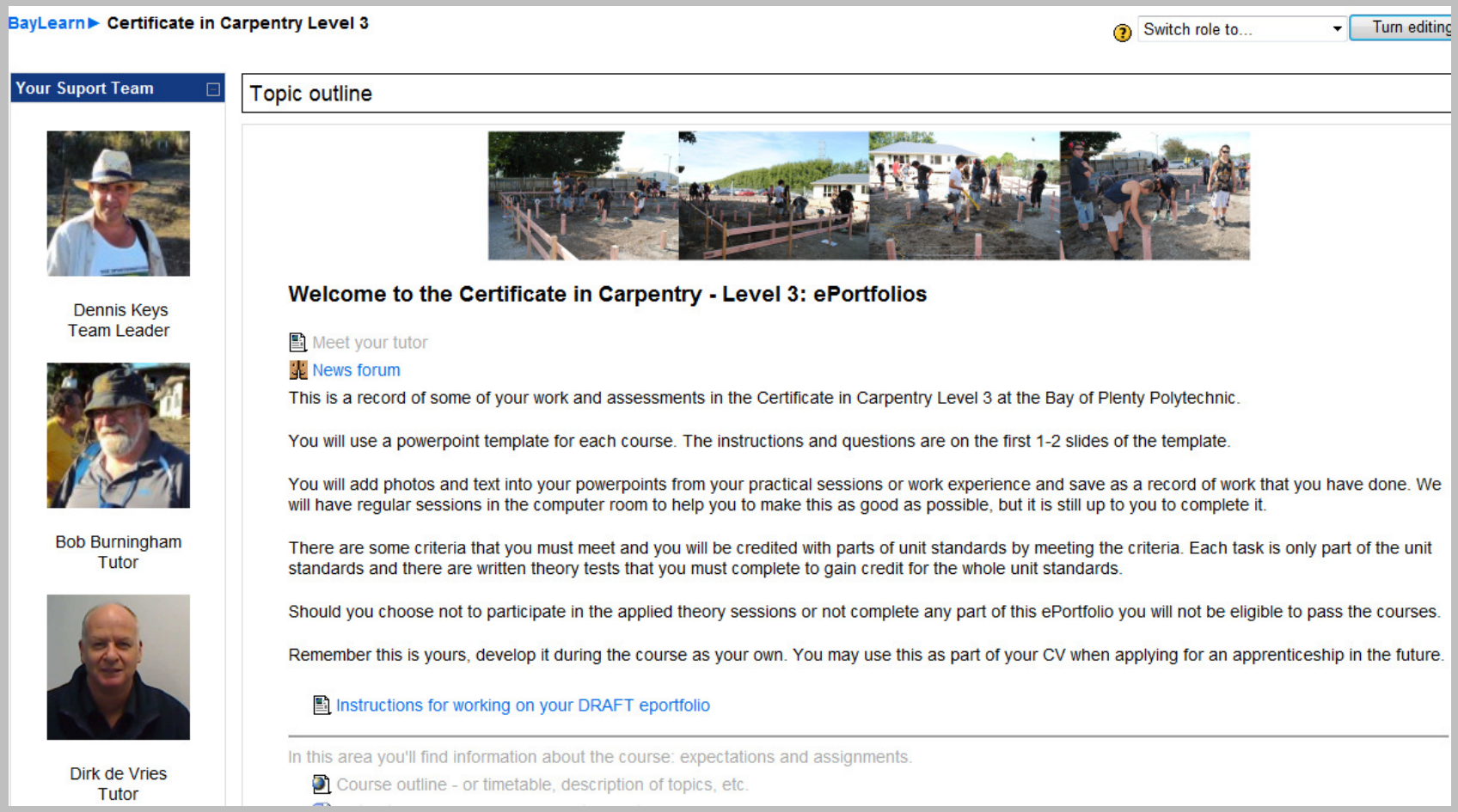
Alternative assessment

Student engagement

Reduce paperwork

E-Portfolio

Learning Management System



PLACING PILES INTO CONCRETE

We first measured out and marked where to dig our holes then we dug them 200mm deep after that we mixed our concrete with 12 shovels of builders mix, 2 shovels of cement and ¾ of a bucket of water then tipped it into the hole. We then placed the pile in at 100mm deep then put our spirit level on 2 sides of the piles to make them plumb.

We centred the piles at 1650mm max apart.

CUTTING THE PILE OFF TO HEIGHT

We cut our piles off at 400mm below F.F.L (finished floor level). We found the pile height by minimising the bearer height to 190mm, then the joist height 190mm then allowed 20mm for the flooring height which gave us 400mm below F.F.L.

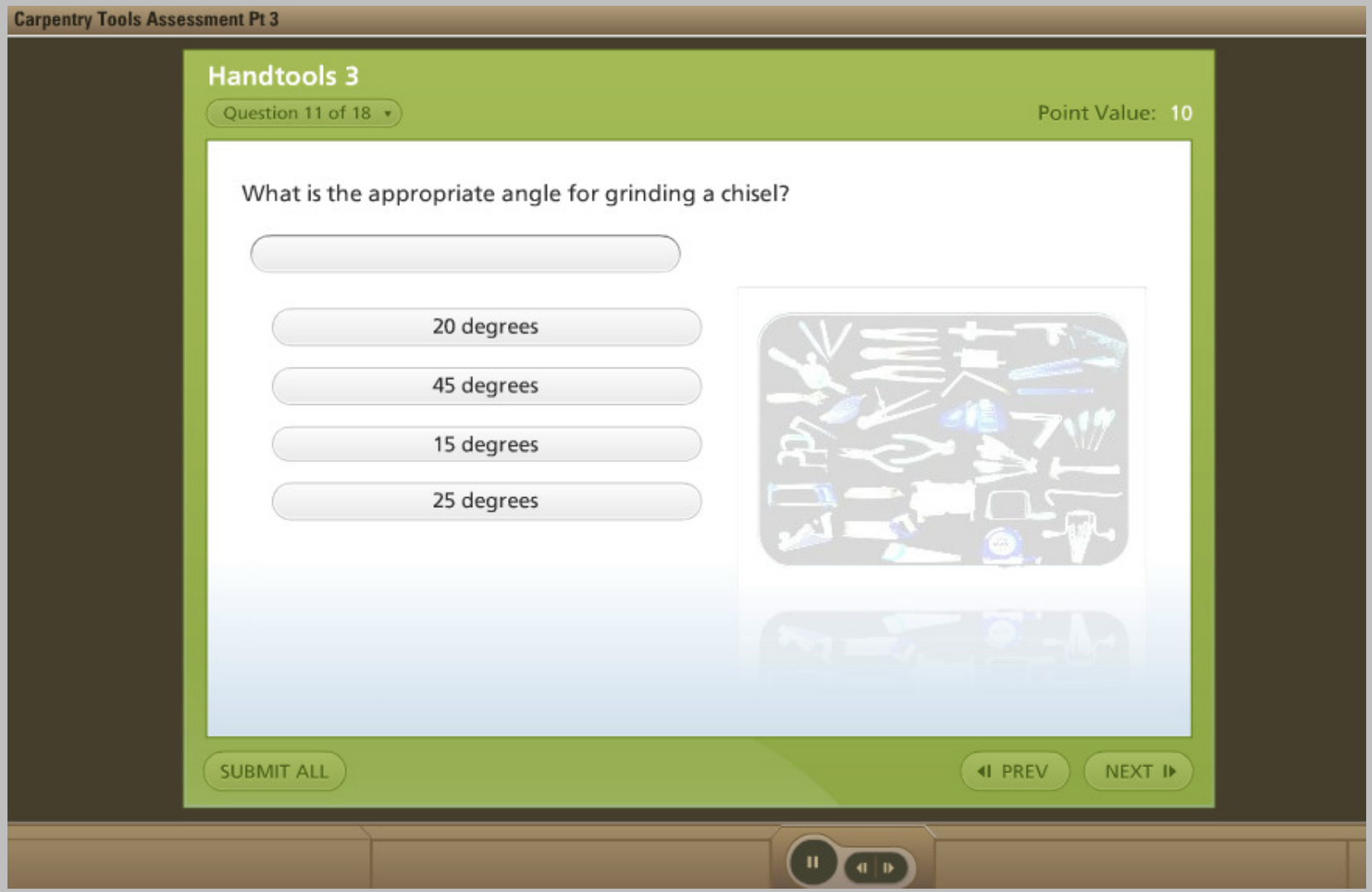
BAY OF PLENTY POLYTECHNIC TAURANGA

Marking Schedule

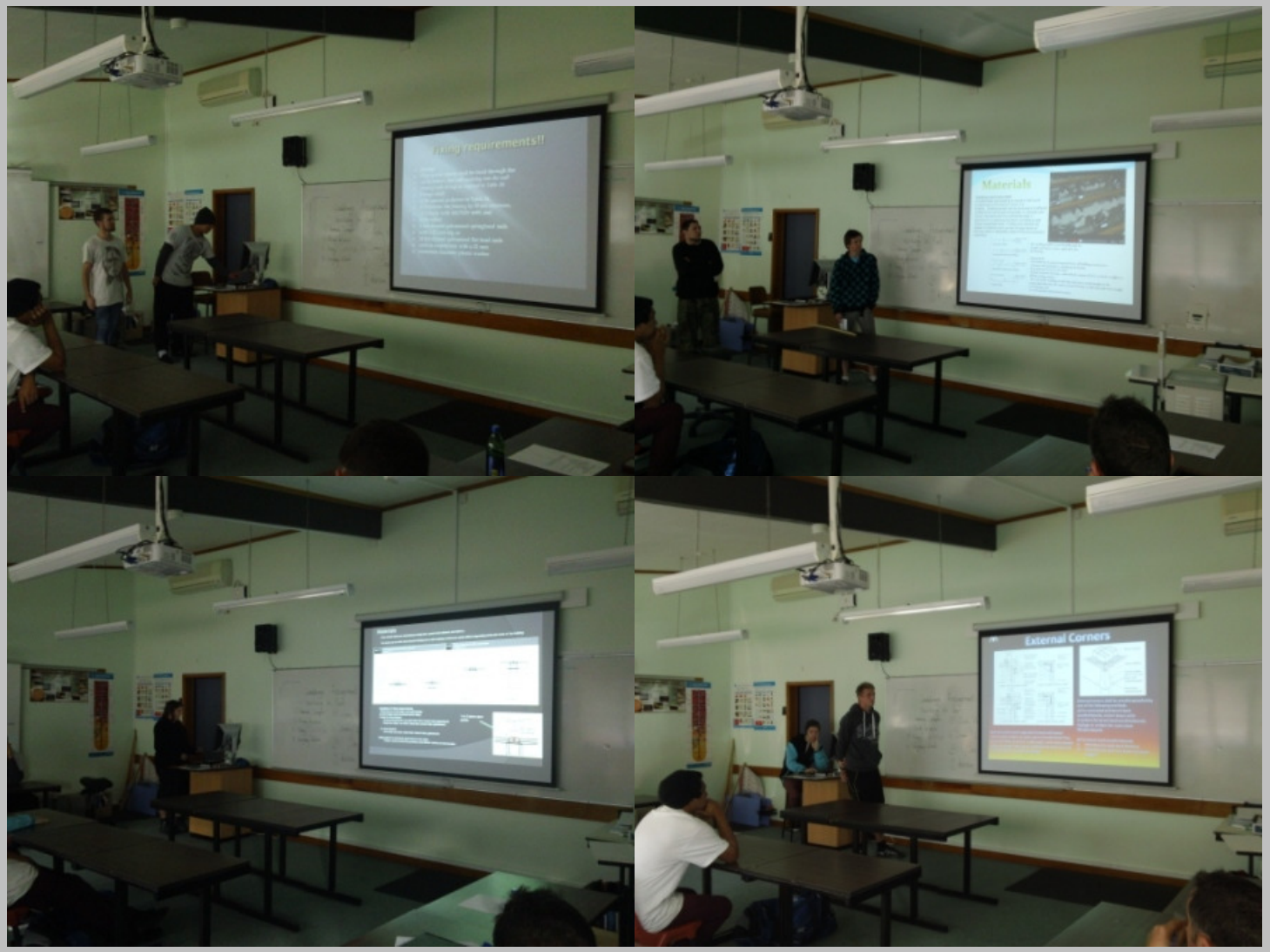
Demonstrate knowledge of Construction of Pile Foundations
Unit Standard 24380

PC	Photo Number	Practical Instruction / Question	PC	Judgement Statement
1.3	1) Photo of placing a pile into wet concrete and plumbing up with level to string line 2) Cutting a pile off to height	• Describe the steps you took to set a pile up in wet concrete. • What centres did you set your piles at? • How much concrete do you need to have under the pile? • What height did you cut the pile off relative to your FFL? • How did you get this distance?	24380/1.3 Placement of piles is described in accordance with NZS 3604:2011 or specific design. Range: line, level and plumb, height, centres, requirements of subfloor bracing schedule.	**Must contain reference to:** • Setting up piles to a line • Plumbing pile with level • 1650 centres max • Concrete 100 mm under pile **Must contain reference to:** • Deduction calculated by adding up floor thickness, joist width, bearer width, then measuring down from FFL to stringline.
2.1 2.2	3) Bearer sitting on a row of piles	• Describe the steps you took to make up the bearer and then fix it to the pile. • What is the main function of a bearer? • What are the requirements for bearers? (NZS HB 3604: 2011 see pgs 2-29)	24380/2.1 The purpose and requirements of bearers and stringers are described in accordance with NZS 3604:2011 or specific design. 24380/2.2 The methods of installing bearers and stringers are described in accordance with NZS 3604: 2011 or specific design.	**Must contain reference to:** • Nail lamination of bearer • Any crooks in bearer to be facing up • Bearers run across the piles to support the joists. NZS HB 3604: 2011 • Bearers of solid or nail laminated timber shall be continuous over 2 or more spans and be laid in straight lines on edge.

Resources


Carpentry Tools Assessment Pt 3
Handtools 3
Question 11 of 18
Point Value: 10
What is the appropriate angle for grinding a chisel?
20 degrees
45 degrees
15 degrees
25 degrees
SUBMIT ALL
PREV
NEXT

Assessment Evidence

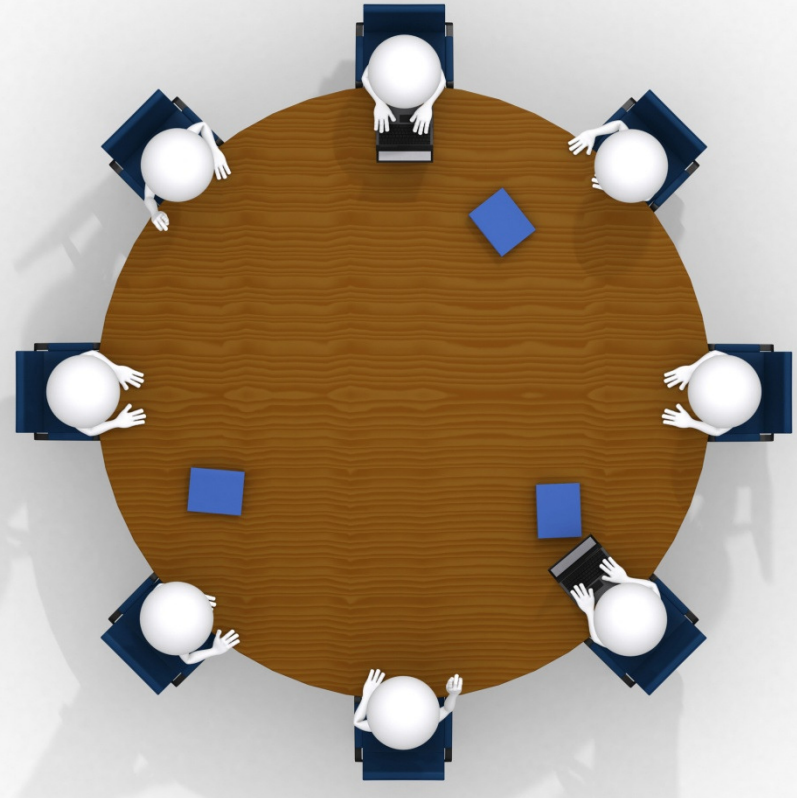



ACTION
RESEARCH

The Team

Teaching Team:
Dennis
Bob
Dirk

Research Team:
Gloria
Brian

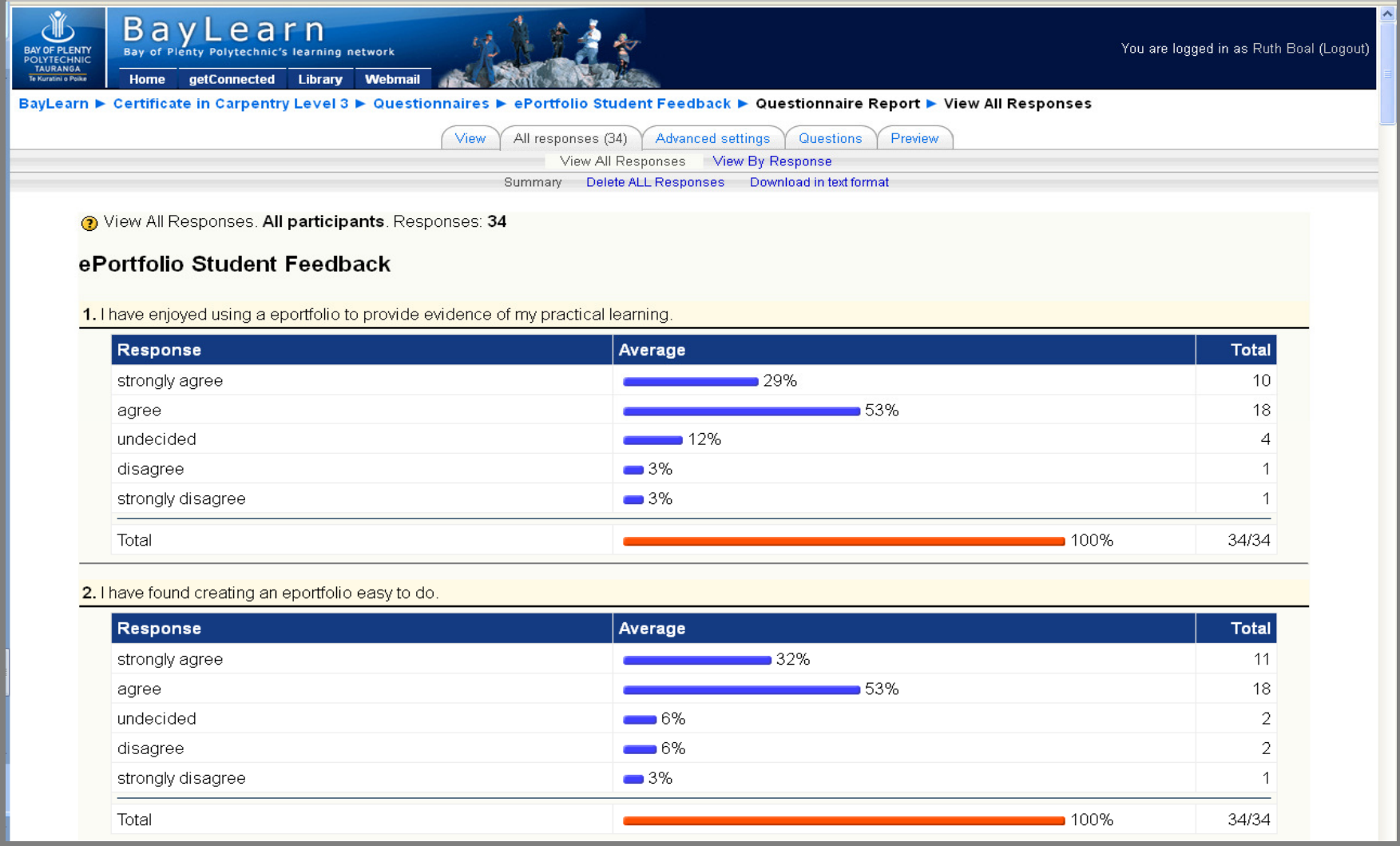


Student Support:
Christine
Clare

Technology Team:
Julie
Leon


ANALYSIS

Student Feedback



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View | All responses (34) | Advanced settings | Questions | Preview
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View All Responses. **All participants**. Responses: **34**

ePortfolio Student Feedback

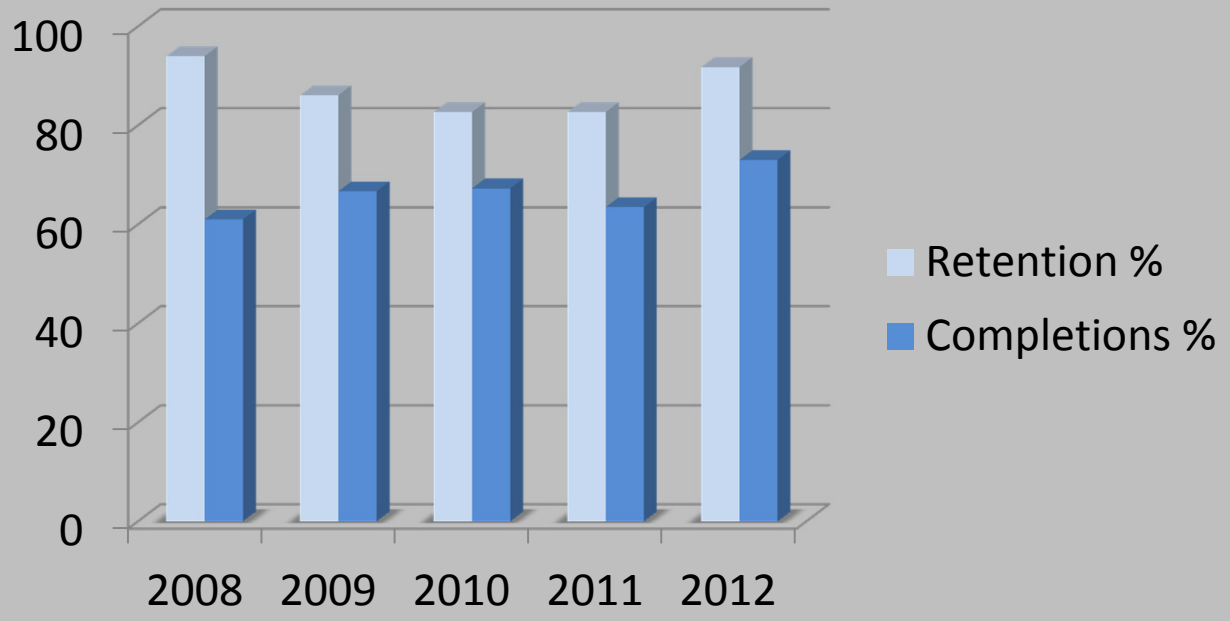
1. I have enjoyed using a eportfolio to provide evidence of my practical learning.

Response	Average	Total
strongly agree	29%	10
agree	53%	18
undecided	12%	4
disagree	3%	1
strongly disagree	3%	1
Total	100%	34/34

2. I have found creating an eportfolio easy to do.

Response	Average	Total
strongly agree	32%	11
agree	53%	18
undecided	6%	2
disagree	6%	2
strongly disagree	3%	1
Total	100%	34/34

The Data



2011
July intake
Impact on
2012 results

2012
e-Portfolios

C01 2012
completions
93.3%

C02 2012
completions
87.5%