

Assuring education in authentic assessment



EDUCATION AND SOCIAL WORK

- Learners; Not yet competent
- Purpose: prepare generically for beginner role
- Design: Analytic, sequenced, scaffolded, selected & controlled



Learners who can fail Instructors who support

- Professionals; competent
- Purpose: achieve a specific work-related goal
- Design: Integrated, dynamic, simultaneous, unpredictable



Workers who must succeed Informal instruction?

Remember we are teaching learners, not judging already completed professionals....

Educa

Real World

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EDUCATION AND

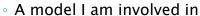
Problems in making things authentic

- School is a simulation of real life
 - doing of the task does not have 'real' consequences, that is where the person being assessed is not fully accountable for the outcomes.
- No matter how realistic a performance-based assessment is, it is still a simulation, and examinees do not behave in the same way they would in real life.
 - Cumming, J. J., & Maxwell, G. S. (1999). Contextualising authentic assessment. Assessment in Education: Principles, Policies and Practices, 6(2), 177–194. https://doi.org/10.1080/09695949992865

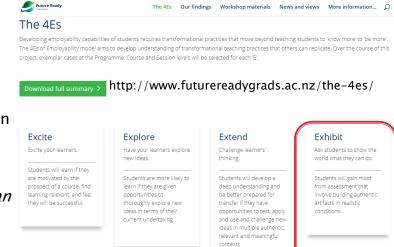
Authenticity Exhibits Learning



 A mental model that guides the program and all participants in deciding what to assess



- Assessment = Demonstration
- Show me what you understand, know, & can do with it to meet learning goals



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Designing for Feedback

- Every task we set is an opportunity to do 2 things
 - Judge quality, rank, report grades (Accountability)
 - Assess or diagnose success and needs, and prescribe solutions (Improvement)
- Feedback opportunities have to be designed into the sequence of assessed tasks
 - Task 1 must be simpler than following tasks
 - Task 1 must be essential for later tasks, so feedback is relevant
 - Task 1 diagnostic information must help improve Task 2 performance
 - · In terms of knowledge, understanding, skills

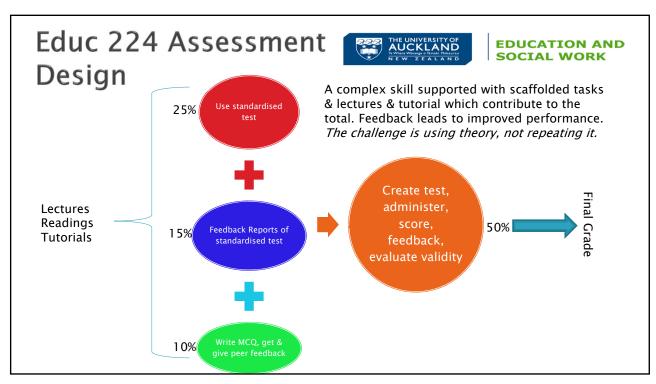


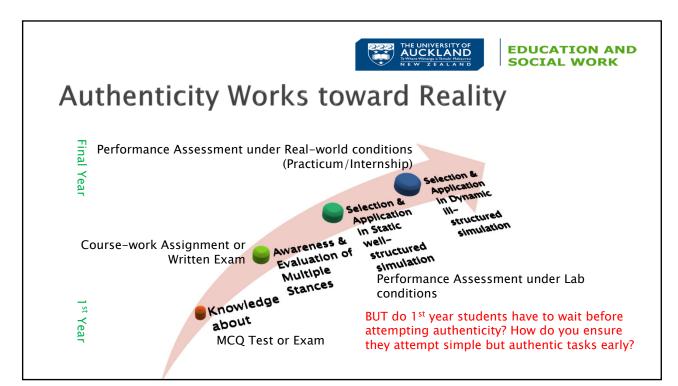
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Authentic assessment exhibits integrated knowledge & skills

- I already know you can answer MCQ or write an essay....
- How can I get you to apply the that knowledge and skill in a novel way, so that I can see your ability to integrate and synchronise multiple objects, processes, and ideas simultaneously?
 - Because this is the way of the world...it's authentic.
- Example: My own course Educ 224 Assessment & Evaluation in Education within the BA degree

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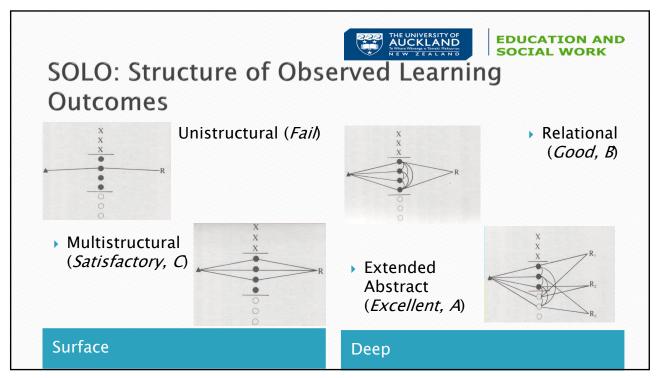




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Authenticity not just difficulty

- Real learning occurs when learners do things that are achievable but challenging
 - Higher-order thinking skills,
 - do more complex; not just "more in less time"
- Cognitive challenge not just long and hard
- How can we ensure that we build challenge into all aspects of curriculum, course content, and assessment?
 - Biggs, J. B., & Collis, K. F. (1982). Evaluating the quality of learning: The SOLO taxonomy (Structure of the Observed Learning Outcome). New York: Academic Press.





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Assessing Deep Outcomes

- Ensure assessments require more than recall and recognition
- Tasks require analysis, synthesis, evaluation, insight, creativity
 - Understand relationships in material,
 - Transform material from one form to another,
 - · Explain meaning of things for oneself,
 - · Derive abstract principles from ideas or information,
 - Apply theory or knowledge to a different context,
 - Analyse and propose solution to a 'knotty' or 'wicked' problem,
 - Describe how student is developing or changing as an individual,
 - Create a novel angle or perception of things,
 - Integrate material with that from other disciplines...etc.



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Table Talk

- How formative and educational are your assessments?
- Discuss with people in a zoom chat room ...
 - To what extent do your assessment practices ensure students gain meaningful educational benefit?
 - No support a a a a a Fully supportive
 - What changes might you have to implement to ensure that the assessments are constructive to learning?

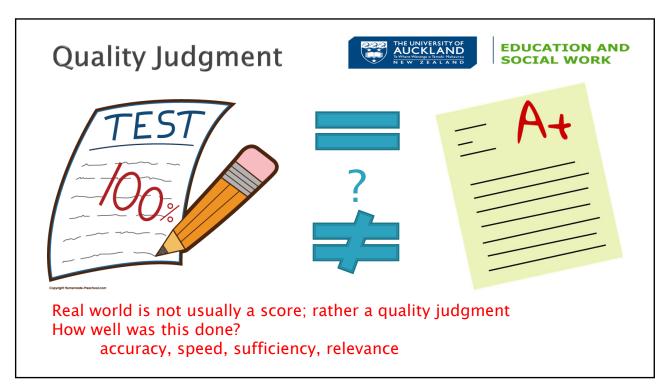
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Reliability in Authentic Assessment







Quality judgment

- We can't give up making evaluative or diagnostic judgments about valued knowledge and skills because that is how it is done in the real world
 - It's not a quantity but a quality that we are meant to reward
 - How well, not how much
- Challenge of proving that our judgments are valid, trustworthy
 - If we say a person is excellent, would anyone in our institution or in the world outside agree?

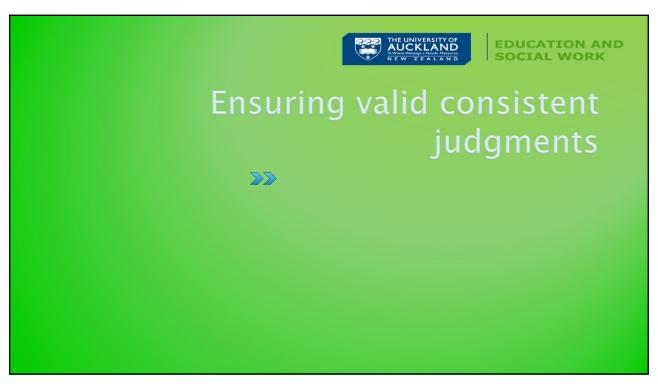


Design for Learning, not just judgement

Discuss

- How (or what) would you restructure the sequence and nature of assessments in your program so that students:
 - Are supported in developing component skills
 - Demonstrate that they can integrate knowledge with competencies
 - Receive feedback in such a way that performance provides insights into improvement
 - Receive sequences of assessments within courses that support developmental acquisition of knowledge and skills
- What systems do you want to ensure your program supports learning?

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How do you score?





- What criteria will be used to judge the performance?
 - Determine the Rich Ideas that your scoring, teaching, and reporting need to reflect.
- Are the criteria norm or criterion referenced?
 - Can you get past incremental quantity differences to a difference in quality?
- What performance/criteria fits each level / grade?

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What is acceptable evidence in a performance?

 Determine the amount and quality of evidence needed to determine the progress interpretations you want to make





Assuring Judgments

- Ideally the same work should be given the same score or grade no matter who marks it
 - But agreement & correlations between and within markers are poor.
 - Differences for the same essay (max 20-point) ranged from zero to 33%
 - · Differences varied between 20% and 35%.
 - Scores (max. 25) for 10 end-of-year examination essays marked by 10 different tutors differed by 5 to 14 marks (M=8.40 or 34% of maximum score).
 - not one of 11 duplicated science practical reports and three copied social science essays was given the same mark.

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Even panels of experts won't agree Olympic scoring

- Range: 8.80 to 9.30—
 - actually pretty close, but these are the elite performers
- Only 3 times do 2 judges give the same mark.
- Remember how quickly this performance happens
- This is hard!

	<u>Judges</u>					
<u>Athlete</u>	Α	В	C	D	Ε	F
1	9.30	9.10	9.10	8.90	9.00	8.90
2	9.00	9.30	9.00	8.80	9.00	9.10





Olympic Judging

- Highly skilled PANEL of judges who systematically observe multiple performances by elite athletes in-the-moment of performance
- Holistic rating on a multi-point scale
- Rules for deducting points for significant faults
- Bias reduction by removing highest and lowest judges per judgement
- Cumulative sum discriminates between performances
- Usually very reliable and valid

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Evaluating Judgements

- Since error & inconsistency in marking is so commonplace we ought to check how we are doing
 - Between markers → moderation
- Cross-checking by having 2 qualified judges mark and compare scores for a common group of performances



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Evaluating Judgements

- If ratings are similar between judges or across times then we can trust the scores as reflecting consensus of an expert community
 - · Consensus—the % of times the same score was awarded
 - Identical >70%
 - Approximate (within 1 mark) > 90%
 - Correlation—tendency to give high and low marks to the same pieces of work
 - · *r*>.70
- So plan mechanism for checking degree of agreement
 - Not knowing is dangerous to our ability to persuade outsiders that we know what we are doing

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Moderation & Training



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- If you meet the expected targets you can use the scores defensibly to make decisions about learning needs and priorities and to report
- ▶ But if not.....
 - More training
 - Perhaps bring in a more experienced person (a Professor, the program manager?)
 - Perhaps include industry, profession people to comment on marking
 - Think about evaluating the work against the standard of "A beginner who would get a job today = A excellent"

Simple moderation



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- Are these close enough to use?
- What discussion is needed?

		Task	
marker	<u>A</u>	<u>B</u>	<u>C</u>
1	B+	С	D+
<u>2</u>	В	C+	C+
<u>3</u>	B+	B-	B-
Midpoint	B+	C+	С
Agreement			
Exact	0.67	0.00	0.00
Approximate	1.00	1.00	0.33

How far apart do we need to be before we stop trusting the marks?

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Table Talk

- Moderating your scoring, rating, grading
- Discuss with people in a zoom chat room ...
 - To what extent do you moderate or compare your grading with others?
 - What changes might you have to implement to ensure that the assessments are reliable enough to use?