



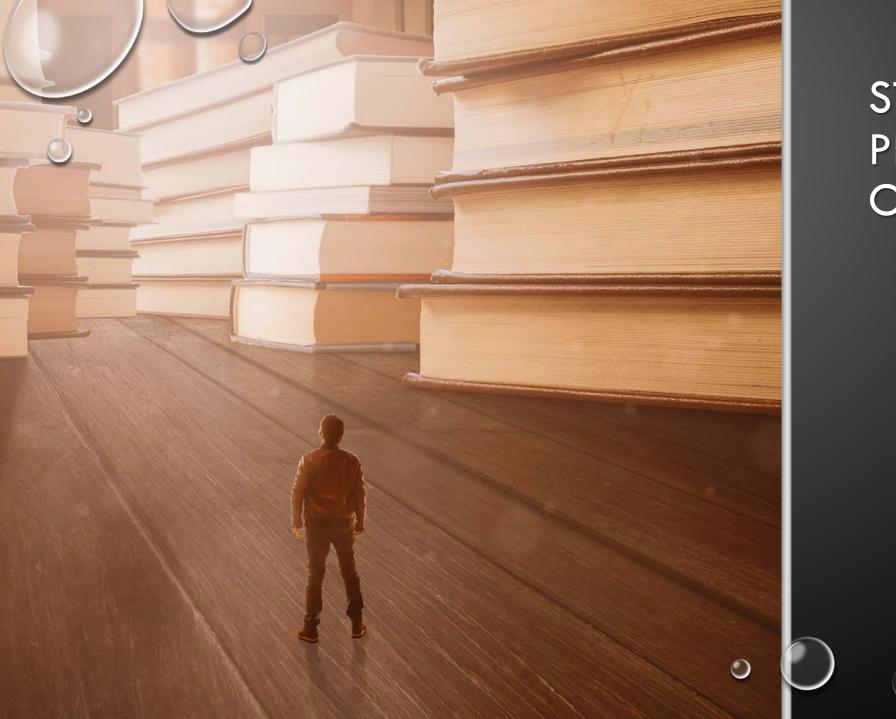
WHY BACKWARDS IS BEST

TODAY'S AGENDA

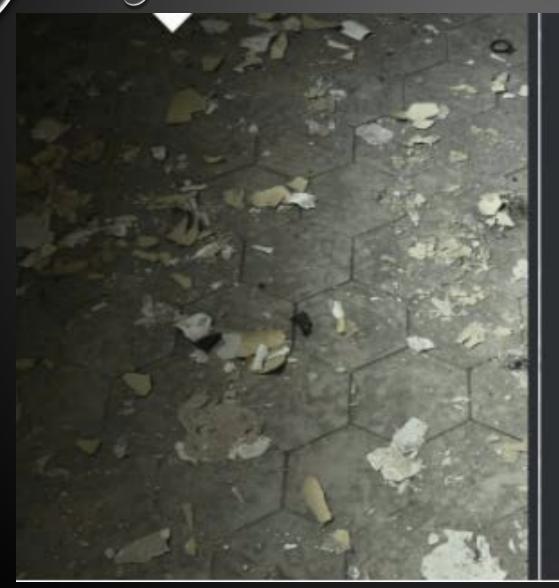
- WELCOME
- KEYNOTE: CURRICULUM DESIGN WHY BACKWARDS IS BEST
- Q&A
- 1.30pm- 2.00pm BREAK
- 2pm 3.30pm INTERACTIVE WORKSHOP on CURRICULUM DESIGN

FROM INDUSTRY TO INSTRUCTION





STANDARDIZED OPROGRAM OUTLINES

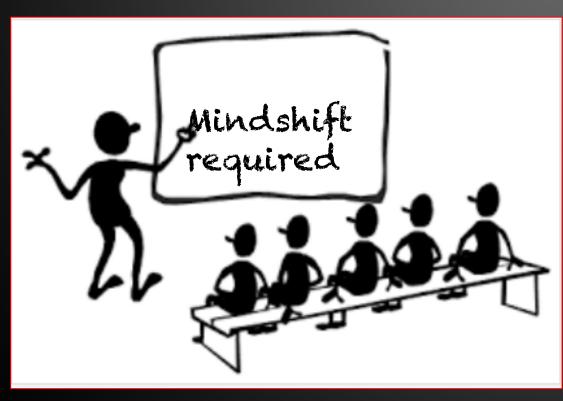


IF IT AIN'T BROKE, BREAK IT!

A REFLECTION ON THE TIME I OPENED UP MY LESSON PLANS AND HIT DELETE.



THE TRADITIONAL CLASSROOM



TEACHING & LEARNING IS SYNCHRONOUS

STRUCTURED TIMETABLE FOR T&L

- ASSIGNED READINGS
- CLASSROOM REVIEW
- POWER-POINT SLIDES / LECTURE
- QUIZZES WORKSHEETS **MULTIPLE CHOICE EXAMS**
- INSTRUCTOR LED **DEMONSTRATIONS**
- STUDENT PASSIVE RECIPIENT IN THE ACQUISITION OF KNOWLEDGE





DIGITAL CLASSROOM: DIGITAL PEDAGOGY

Teaching & Learning is Asynchronous

Students set own timetable and take responsibility for their learning

Instructor Designs Curriculum:



Assumes Learners are capable agents in the acquisition of knowledge Learning takes place without the physical presence of an instructor





ONLINE LEARNING DOESN'T HAPPEN BY CHANCE

- Develop knowledge, skills and attitudes concerning online facilitation
- Develop knowledge and skills in designing online pedagogies
- Develop technical skills using an LMS to facilitate online learning







CURRICULUM IS AN INTENTIONAL LEARNING JOURNEY...

DESIGNED WITH THE LEARNER IN MIND



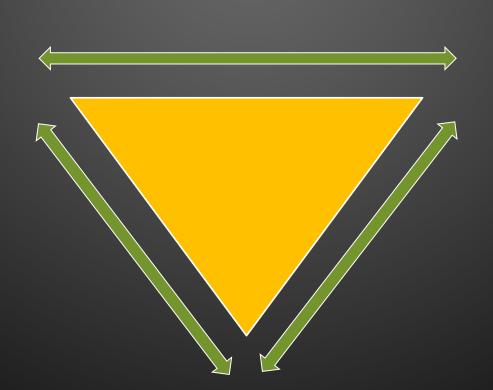


FROM TVET INSTRUCTOR TO CURRICULUM DESIGNER

DESIGNING CURRICULUM: BACKWARD DESIGN



Make Explicit
 your Learning
 Outcomes:
 Targeted changes
 you want to see in
 your students



2. Design

Assessments to align directly with these Learning
Outcomes

3. Instructional Activities: Design your Teaching and Learning activates strategically so that students meet your intended Learning Outcomes











Occupational Analysis Chart

BAKER

Occupation Description: "Baker" means a person who is responsible for the preparation and production of a wide variety of baked foods, and may include those who work as both Bakers and Pastry Cooks/Chefs (Patissiers). Bakers prepare bread, rolls, muffins, pies, pastries, cakes and cookies in retail and wholesale bakeries and dining establishments. Pastry Cooks/Chefs prepare pastries, cakes, cookies, chocolate, desserts, and confectionery in pastry shops, hotels, and restaurants.

OCCUPATIONAL SKILLS	Demonstrate workplace safety procedures	Apply safe food handling practices	Apply interpersonal skills	Use and maintain baking tools and equipment	Use product and nutritional information	Apply baking science and trade calculations
А	1 2 3 A1	1 2 3 A2	1 2 3 A3	1 2 3 A4	1 2 3 A5	1 2 3 A6
	Plan and organize production	Manage bakery products and inventory	Apply cost control procedures	Apply packaging and merchandizing procedures		
	1 2 3 A7	A8 1 2 3	1 2 3 A9	1 2 3 A10		
FERMENTED GOODS	Prepare basic doughs and products	Prepare laminated doughs and products	Prepare specialty doughs and products	Prepare natural ferments and Artisan breads		
В	1 2 B1	B2	B3	B4		
PASTRIES	Prepare pies and tarts	Prepare laminated pastry doughs and products	Prepare specialty pastries	Prepare deep fried pastries and products		
С	C1 1 2 C1	1 2 C2	1 2 3 C3	C4		





Program Content Level 1



Line (GAC): B FERMENTED GOODS

Competency: B1 Prepare basic doughs and products

Objectives

To be competent in this area, the individual must be able to:

- Describe basic doughs and products.
- Describe the principles of preparing basic doughs.
- Scale and mix basic doughs.
- Perform make-up of basic doughs and products.
- Finish and bake basic dough products.
- Cool, slice and package basic dough products.

LEARNING TASKS

Describe basic doughs and products

CONTENT

- Straight doughs
 - White bread dough
 - Whole wheat bread dough
 - Basic sweet dough
 - Lean straight dough

Three Parts of a Learning Outcome

- 1. Action Word (Performance Verb)
- 2. Context (situated within practice)
- 3. Criteria (to what standard)

Context: variety of yeasted products

Learning Outcome: Evaluate yeasted products utilizing the twelve steps of bread

Performance: Evaluate

Criteria: Twelve Steps of bread

Performance - Context - Criteria



OBJECTIVES VERSUS OUTCOME

ITA COMPETENCY: B1: PREPARE BASIC DOUGHS AND PRODUCTS

- Describe basic doughs and products
- Describe the principles of preparing basic doughs
- Scale and mix basic doughs
- Perform make-up of basic dough and products
- Finish and bake basic dough products
- Cool, slice and package basic dough products

LEARNING OUTCOME

• EVALUATE YEASTED PRODUCTS

UTILIZING THE TWELVE STEPS

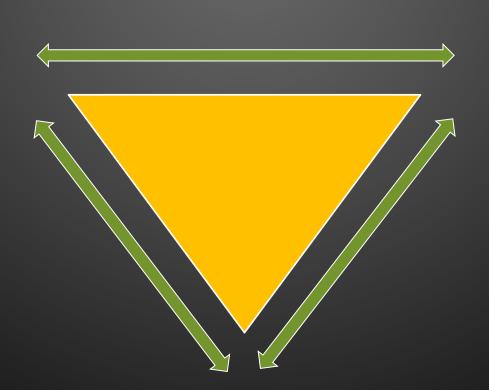
OF BREAD



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REAL LIFE DOES NOT HAPPEN IN MULTIPLE-CHOICE QUESTIONS

- AUTHENTIC ASSESSMENTS RELATE
 TO REAL WORLD PROBLEMS
- REQUIRE HIGHER ORDER THINKING SKILLS
- REQUIRE STUDENTS TO EVALUATE SITUATIONS, PREDICT OUTCOMES AND SOLVE PROBLEMS
- APPLY LEARNED KNOWLEDGE AND SKILLS IN A REAL-LIFE SITUATION



AUTHENTIC ASSESSMENT



WHY USE AUTHENTIC ASSESSMENTS?



ATHENTIC ASSESSMENTS
ARE THE BEST WAY TO
DETERMINE LIFE
ACHIEVEMENT



ESSAYS AND CLASS TESTS DO NOT RELATE TO THE REAL WORLD

HOW TO INCORPORATE AUTHENTIC ASSESSMENTS

ART STUDENTS SHOULD
BE ASSESSED BY
THEIR ARTISTIC TALENTS





TRY YOUR BEST TO RELATE AUTHENTIC ASSESSMENTS TO REAL WORLD PROBLEMS

HIGHER ORDER THINKING SKILLS



THESE ASSESSMENTS MUST CHALLENGE YOUR STUDENTS TO CREATE AND SOLVE PROBLEMS



ALSO LET YOUR STUDENTS' IMAGINATION CREATE
THESE ASSESSMENTS

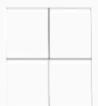
APPLY LEARNED KNOWLEDGE



ALL STUDENTS MUST ONE DAY APPLY WHAT THEY LEARNED IN SCHOOL TO WORK SETTINGS

REAL LIFE DOES NOT OCCUR WITH MULTIPLE CHOICE QUESTIONS AND ESSAYS

RUBRICS



AUTHENTIC ASSESSMENTS ARE MOSTLY SUBJECTIVE

SET CRITERIOR AND GOALS
FOR YOUR STUDENTS

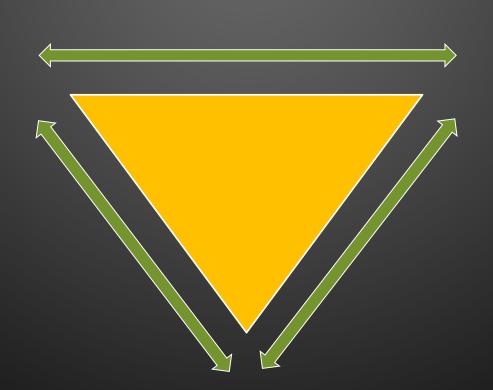




Learning Outcome 4	Summative Assessments	Tools to use
By the end of this course, students will be able to:	What key assignments will collect evidence that the course outcomes have been met?	What tools will you use to collect this evidence? (Quiz Tool, Assignment tool in D2L)
Evaluate yeasted products utilizing the twelve steps of bread.	Twelve Steps of Bread Assignment Adapt three pre-selected existing program bread formulas by inserting the twelve steps of bread at appropriate points in the production process.	D2l Assignment tool
	Identify and describe five formulas that utilize different methods of mixing – straight dough, modified straight dough, short, improved, intensive mix. Discuss the characteristics of products each mixing method is likely to produce. Create an infographic illustrating how bread mixing has evolved over the past five hundred years.	D2L Assignment tool
	Fermentation Assignment Written assignment that analyzes four pre-selected formulas using different times/temperatures during fermentation and the effect this has on the finished product with regard to flavour, aroma, and crumb.	D2L Assignment tool
	Final exam	Zoom Oral exam

DESIGNING CURRICULUM: BACKWARD DESIGN

1. Make Explicit your **Learning Outcomes:** Targeted changes you want to see in your students



2. Design **Assessments** to align directly with these Learning Outcomes

3. Instructional Activities: Design your Teaching and Learning activates strategically so that students meet your intended Learning Outcomes







COURSE CONTENT

• TOOLS, MATERIAL, RESOURCES, TEXTBOOKS

 EXPLAIN, DESCRIBE, SUMMARIZE MEMORIZE, RECOGNIZE, KNOW THIS STUFF, UNDERSTAND THIS IDEA, ETC.

LEARNING OUTCOME

WHAT CAN STUDENTS NOW DO, BY THEMSELVES?

PREDICT, RECOMMEND, INTERPRET,
 DIAGNOSE, EVALUATE, INVENT





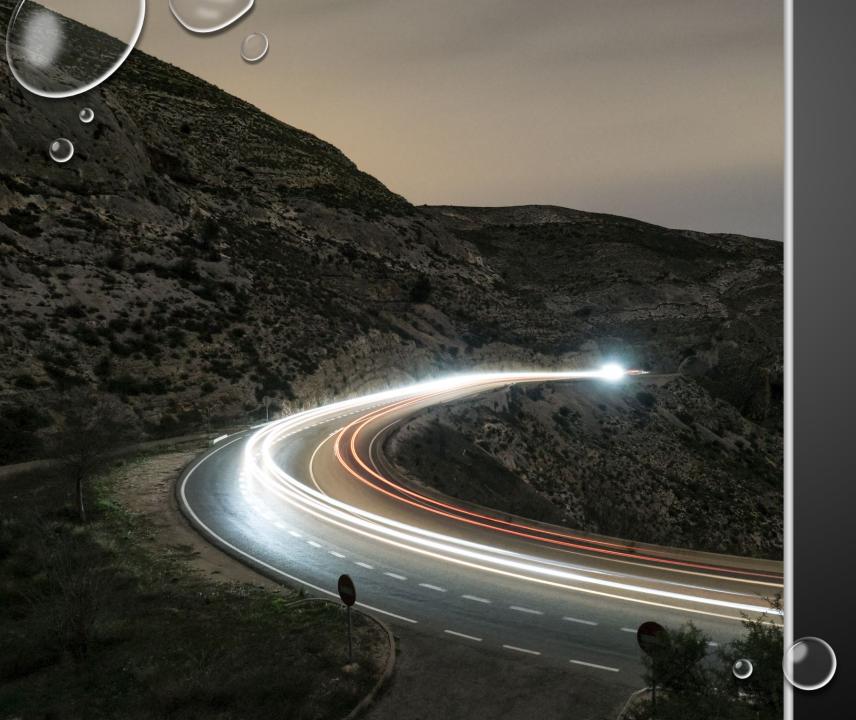
- 1. Traditional pedagogies V digital pedagogies
- 2. TVET Instructors: Switching roles
- 3. I introduced Backward Design as a framework
- 4. Defined Learning Outcomes from Objectives

Curriculum Design: Backward Design Summary









Curriculum Development: Backward Design workshop

- 1: LET'S DEVELOP LEARNING
 OUTCOMES
- 2: BREAK-OUT ROOMS
- 3: SHARE
- 4: LET'S ALIGN AUTHENTIC ASSESSMENTS
- 5: BREAK-OUT ROOMS
- 6: SHARE
- 7:TELL ME: INSTRUCTIONAL STRATEGIES
- 8: Q&A



TEACHING ONLINE REQUIRES A SHIFT OF EMPHASIS FOR TEACHERS:

FROM:

PRESENTER, RESPONDER (LIVE PRESENCE)

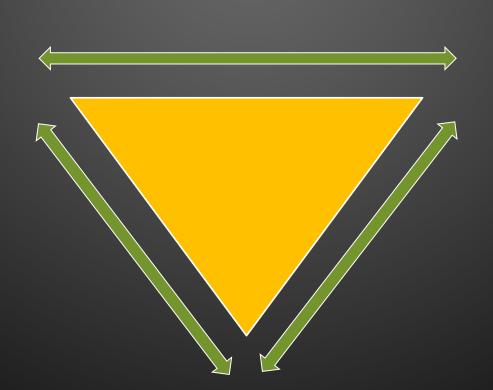
TO:

DESIGNER OF ASSIGNMENTS AND PATHWAYS (INDIRECT PRESENCE) SO STUDENTS FIND THEIR WAY WITHOUT YOUR CONSTANT PARTICIPATION

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KNOW WHERE YOU ARE LEADING YOUR STUDENTS

Curriculum development starts here

URRICULUM: MAPPING THE STUDENT JOURNEY





COURSE CONTENT

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THINK TIME!

You have a few minutes. Use these to share in the chat

ONE MOST
IMPORTANT, LIFEALTERING
DIFFERENCE

you hope to induce in your students, as a result of their experience in your course.



BREAKOUT ROOMS

DEVELOP THREE LEARNING **OUTCOMES** FOR A TVET **COURSE USING** THE PRINCIPLES OF BACKWARD DESIGN



BEWARE OF THESE VERBS IN YOUR LEARNING OUTCOMES

- UNDERSTAND
- KNOW
- RECOGNIZE
- FAMILIARIZE
- REMEMBER
- OBSERVE
- VALUE



Students completing this course will understand how fuel injection works.

VS.

Students completing this course will be able to diagnose problems in fuel injection systems and prescribe and/or perform the necessary repairs to industry standards.





HIGH LEVEL VERBS = HIGH LEVEL LEARNING

HORTICULTURE

• STUDENTS COMPLETING THIS COURSE WILL BE ABLE TO **EVALUATE** THE BIOLOGICAL, CHEMICAL, AND PHYSICAL PROPERTIES OF SOIL AND SOILLESS GROWING MEDIA









REFRIGERATION MECHANICS AIR CONDITIONAING LEVEL 4

• STUDENTS COMPLETING THIS COURSE WILL BE ABLE TO DIAGNOSE GAS INSTALLATION DIFFICULTIES AND DETERMINE THE APPROPRIATE COURSE OF ACTION AS PER MANUFACTURES SPECIFICATIONS AND INDUSTRY STANDARDS



BREAKOUT ROOMS

IDENTIFY AUTHENTIC ASSESSMENTS THAT **ALIGN** WITH YOUR THREE LEARNING **OUTCOMES** USING THE PRINCIPLES OF **BACKWARD** DESIGN





BREAKOUT ROOMS

ASSESS WHETHER THIS INSTRUCTOR'S **INSTRUCTIONAL STRATEGIES ALIGN** WITH THE **SUMMATIVE ASSESSMENT, AND** THE INTENDED **LEARNING OUTCOMES FOR** THIS COURSE

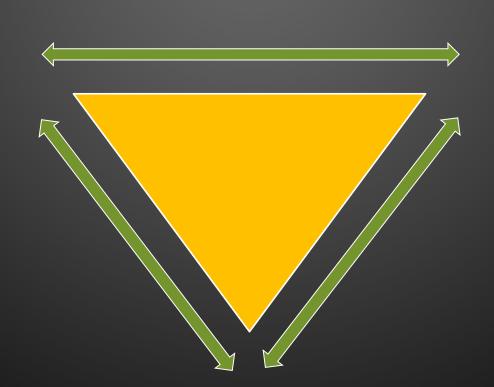


Learning Outcome 4	Summative Assessments	Tools to use
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TODAY'S SESSION WAS DESIGNED USING BACKWARD DESIGN

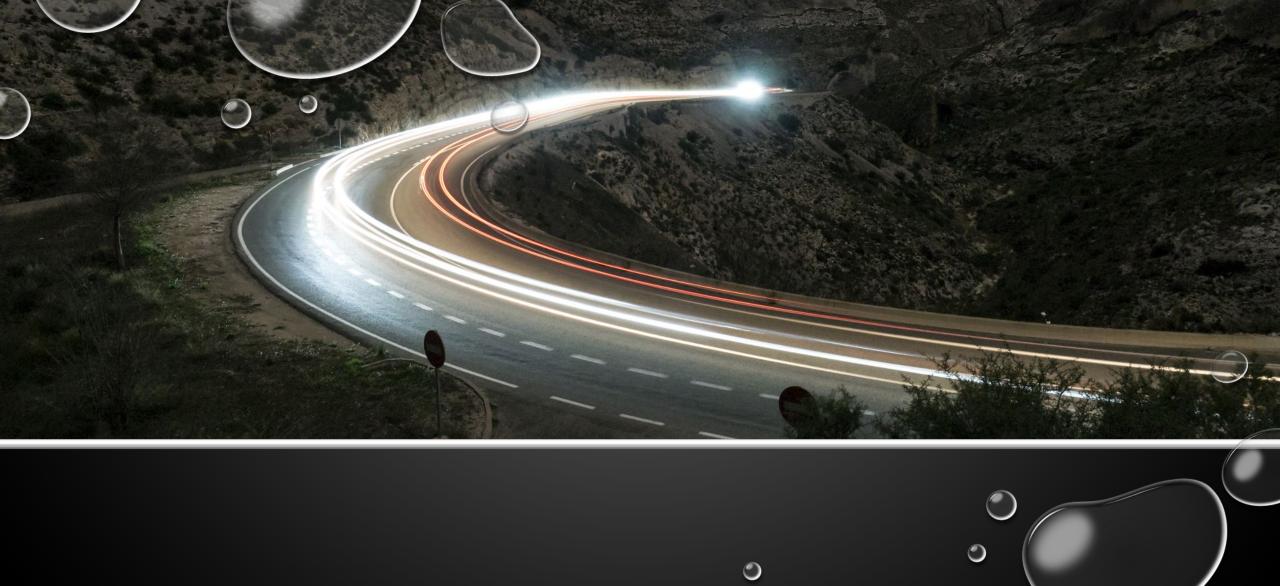
1. Learning
Outcome: The
learner will be
able to apply the
Backwards Design
framework to
develop TVET
curriculum



- 2. Assessments:
 develop 3 Learning
 Outcomes using the ITA
 program outline
- Align AuthenticAssessments with outcomes
- Perform analysis of an existing curriculum to Assess alignment

3. **Instructional Activities**: Presentation using pp slides to capture the big ideas. Q&A. Low stakes activity to develop Outcomes, and Assessment. Analyze existing curriculum. Added resources and contacts.





- THANK YOU FOR BEING PART OF TODAY SESSION
 - YOU CAN REACH ME sally.vinden@viu.ca