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DEFINITION OF THE EVALUATION DOMAIN

ADULT GENERAL EDUCATION (AGE)

DIVERSIFIED BASIC EDUCATION PROGRAM (DBE)

MATHEMATICS

Data Collection in a Fundamental Context

MTH-4272-2

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Coordination and Content

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Additional Information

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Introduction

The Definition of the Evaluation Domain (DED) ensures consistency between a course and the related evaluation instruments. The DED is used to select, organize and describe the essential and representative elements of the course. The DED is based on the program of study and the course but should by no means replace them in the planning of instructional activities.

All the DEDs produced after June 30, 2014, by the Ministère de l'Éducation (MEQ) are prescriptive. Consequently, they are the reference documents to be used in the development of all examinations, be they ministerial examinations or those developed by adult education centres or by Société GRICS (BIM). The DEDs thus serve as a model for preparing multiple equivalent versions of examinations that are valid across the province.¹

Since the development of evaluation instruments for this course is the responsibility of the Ministère, the ministerial examination must be administered and marked in accordance with the Instructions for Administering the Examination and the *Marking Guide*.

At no time may the ministerial and prototype examinations produced by the Ministère be used as evaluations to support learning or as classroom practice exercises.

Furthermore, as set out in the Policy on the Evaluation of Learning, adult learners must know what they will be evaluated on and what is expected of them.² The DEDs and the criterion-referenced rubrics are recommended for this purpose.

¹ Québec, Ministère de l'Éducation du Québec, *Policy on the Evaluation of Learning* (Québec: Gouvernement du Québec, 2003), 47.

² Ibid., 9.

Evaluation Content

General Information	
<p>Broad Areas of Learning³</p> <ul style="list-style-type: none"> ▪ Health and Well-Being ▪ Career Planning and Entrepreneurship <p>Subject Area</p> <ul style="list-style-type: none"> ▪ Mathematics, Science and Technology <p>Family of Learning Situations</p> <ul style="list-style-type: none"> ▪ Processing data 	<p>Program of Study</p> <ul style="list-style-type: none"> ▪ Mathematics <p>Course</p> <ul style="list-style-type: none"> ▪ Data Collection in a Fundamental Context
Essential Elements Targeted by the Evaluation	
<p>Subject-Specific Competencies</p> <ol style="list-style-type: none"> 1. Uses strategies to solve situational problems 2. Uses mathematical reasoning 3. Communicates by using mathematical language 	<p>Categories of Knowledge</p> <ul style="list-style-type: none"> ▪ Two-variable distribution
Evaluation Criteria	
<p>Evaluation Criteria for Competency 1</p> <ol style="list-style-type: none"> 1.1 Indication (oral or written) that the situational problem has been understood 1.2 Application of strategies and appropriate mathematical knowledge <p>Evaluation Criteria for Competency 2</p> <ol style="list-style-type: none"> 2.1 Correct use of appropriate mathematical concepts and processes 2.2 Proper implementation of mathematical reasoning suited to the situation 2.3 Proper organization of the steps in an appropriate procedure 	<p>Proficiency in Subject-Specific Knowledge</p> <ul style="list-style-type: none"> ▪ Proficiency in subject-specific knowledge presupposes its acquisition, understanding, application and mobilization, and is therefore linked with the evaluation criteria for the competencies.

³ The broad areas of learning are stated exactly as in the course. However, the person who designs the examination may choose other broad areas of learning.

Explanation of the Evaluation Content

Evaluation Criteria

The evaluation criteria are stated exactly as in the course.

Not all the evaluation criteria for the course are used in the examination. Nevertheless, the adult learner must receive feedback on all of them during the learning process.

The evaluation criteria used in the examination are presented below. They are associated with Competency 1, *Uses strategies to solve situational problems* and Competency 2, *Uses mathematical reasoning*.

Competency 3, *Communicates by using mathematical language*, is not specifically evaluated for the purpose of certification and recognition. However, as it is an essential part of all mathematical activities, this competency has been taken into account in the assessment tools provided to help teachers come to a judgment.

Information Clarifying the Evaluation Criteria

1.1 Indication (oral or written) that the situational problem has been understood

This criterion evaluates the adult learner's ability to identify what is required in accordance with the wording of the problem and to extract relevant information, taking into account the constraints involved in the mathematical processing of the situation.

1.2 Application of strategies and appropriate mathematical knowledge

This criterion evaluates the adult learner's ability to use relevant strategies to select appropriate knowledge in order to solve the problem.

2.1 Correct use of appropriate mathematical concepts and processes

This criterion evaluates the adult learner's ability to properly apply the mathematical knowledge and skills required to solve the problem.

2.2 Proper implementation of mathematical reasoning suited to the situation

This criterion evaluates the adult learner's ability to use logical reasoning by drawing upon the appropriate knowledge and skills.

2.3 Proper organization of the steps in an appropriate procedure

This criterion evaluates the adult learner's ability to present a structured procedure that complies with mathematical notation and conventions. The answer is consistent with the adult learner's procedure and the context of the situational problem.

Proficiency in Subject-Specific Knowledge

Proficiency in subject-specific knowledge is assessed through the evaluation of the competencies, using tasks related to the evaluation criteria.

For this course, certain knowledge is explicitly evaluated.

Weighting

The weighting of the competencies is determined in accordance with the Framework for the Evaluation of Learning in general education in the youth sector.

- Competency 1, Uses strategies to solve situational problems: 30%.
- Competency 2, Uses mathematical reasoning: 50%.
- The weighting corresponding to the knowledge that is explicitly evaluated is 20%.

Adult learners must be made aware of the evaluation criteria used to evaluate them and the corresponding weighting of each criterion.

Knowledge

All the categories of knowledge and all items of prescribed knowledge are covered in the examination. However, for a given item of prescribed knowledge, it is not necessary to include all of the items listed in the Restrictions and Clarifications column of the table of prescribed knowledge for the course.

Subject-Specific Content

Categories of Knowledge	Prescribed Knowledge
Two-variable distribution	<ul style="list-style-type: none"> ▪ Constructing and interpreting two-variable distribution tables <ul style="list-style-type: none"> • Drawing a scatter plot ▪ Representing and determining the equation of the regression line ▪ Interpolating or extrapolating using the regression line <ul style="list-style-type: none"> • Interpreting a correlation qualitatively and quantitatively • Interpolating and extrapolating using the functional model best suited to the situational problem

Specifications for the Evaluation Instruments

Examination: Number of Parts, Procedure and Duration

The examination is divided into two sections. These two sections are included in a single booklet and must be administered during the same evaluation session, barring exceptional circumstances.

Duration: 180 minutes.

Examination Content

The two sections of the examination are:

1. The Explicit Evaluation of Knowledge section

In this section, the adult learner must answer four application questions.

2. The Evaluation of Competencies section

This section consists of three tasks that the adult learner must complete based on real-life situations.

Information-Gathering Tool

- Explicit Evaluation of Knowledge
 - Short- and long-answer questions in the *Adult's Booklet*.
- Evaluation of Competencies
 - Problem-solving tasks in the *Adult's Booklet*.

Authorized Materials

- A scientific or graphic display calculator without a computer algebra system (CAS)

Information about the calculator and its use:

- The calculator must not be able to perform algebraic calculations, factor algebraic expressions or solve equations.
- The data and programs stored in the calculator's memory must be deleted before and after the examination. Before the day of the examination, adult learners must have been given the opportunity to learn how to reset their calculator's memory to zero.

- A ruler, a set square, a compass, a protractor, blank rough paper and blank graph paper

- A memory aid

Information about the memory aid:

- The adult learner may prepare a memory aid consisting of no more than one 8½ x 11 inch sheet of paper, with information on one side only. It may be handwritten or typed (minimum 12-point font; single-spaced) and must be approved by the teacher.
- Mathematical formulas and examples may be included in the memory aid.

Note: A table for the qualitative interpretation of the linear correlation is included in Appendix I as well as in the *Adult's Booklet*.

Assessment Tools

For the Explicit Evaluation of Knowledge section, examples of appropriate solutions are provided in the *Marking Guide*.

For the Evaluation of Competencies section, the criterion-referenced rubrics are the assessment tools to be used by the teacher. In criterion-referenced interpretation, the information gathered is compared with the outcomes expected of the adult learner.⁴ The rubrics are found in Appendix II as well as in the *Marking Guide* and the *Adult's Booklet*. The rubrics are compulsory and include the following rating scale:

Competency development:

- Advanced
- Thorough
- Acceptable
- Partial
- Minimal

An information-gathering tool is also provided to facilitate the marker's task. It can be found in the *Marking Guide*.

Pass Mark

The pass mark is 60%.

Retakes

The adult learner must retake a different version of the entire examination.

⁴ Québec, Ministère de l'Éducation du Québec, *Policy on the Evaluation of Learning* (Québec: Gouvernement du Québec, 2003), 34.

Appendix I – Qualitative Interpretation of the Linear Correlation

Strength of the Correlation	Value of r
Perfect	$ r = 1$
Strong	$0,85 \leq r < 1$
Moderate	$0,75 \leq r < 0,85$
Weak	$0,5 \leq r < 0,75$
Zero	$ r < 0,5$

Appendix II – Criterion-Referenced Rubrics

<p style="text-align: center;">EVALUATION</p> <p style="text-align: center;">Criterion-Referenced Rubrics</p> <hr/> <p style="text-align: center;">Adult learner's name</p> <hr/> <p style="text-align: center;">Teacher's name</p> <hr/> <p style="text-align: center;">Date</p>

ADULT GENERAL EDUCATION PROGRAM

DIVERSIFIED BASIC EDUCATION PROGRAM

Mathematics

Course

Data Collection in a Fundamental Context

MTH-4272-2

Competency 1: Uses strategies to solve situational problems (30%)

Instructions:

- For each criterion, circle the statement(s) that correspond(s) to the adult learner's performance level.
- In the last column, enter the mark that corresponds to the assigned rating(s). The only mark that can be allotted for a given level is that indicated in the rubric.
- Assign a mark of 0 when the adult learner's performance does not correspond to any of the statements in the rubric.

Rating Scale Evaluation Criteria	ADVANCED competency development	THOROUGH competency development	ACCEPTABLE competency development	PARTIAL competency development	MINIMAL competency development	Mark
1.1 Indication (oral or written) that the situational problem has been understood	Accurately identifies the relevant information and the required elements 10	Identifies, with a fair amount of accuracy, the relevant information and the required elements 8	identifies some of the relevant information and required elements. 6	Rarely identifies the relevant information and the required elements 4	Very rarely identifies the relevant information and the required elements. 2	___/10
1.2 Application of strategies and appropriate mathematical knowledge	Always uses relevant strategies to select appropriate knowledge. 20	Usually uses relevant strategies to select appropriate knowledge. 16	Sometimes uses relevant strategies to select appropriate knowledge. 12	Rarely uses relevant strategies to select appropriate knowledge. 8	Very rarely uses strategies to select appropriate knowledge. 4	___/20
Mark for Competency 1:						___/30

Competency 2: Uses mathematical reasoning (50%)

Instructions:

- For each criterion, circle the statement(s) that correspond(s) to the adult learner's performance level.
- In the last column, enter the mark that corresponds to the assigned rating(s). The only mark that can be allotted for a given level is that indicated in the rubric.
- Assign a mark of 0 when the adult learner's performance does not correspond to any of the statements in the rubric.

Rating Scale Evaluation Criteria	ADVANCED competency development	THOROUGH competency development	ACCEPTABLE competency development	PARTIAL competency development	MINIMAL competency development	Mark
2.2 Proper implementation of mathematical reasoning suited to the situation	Always presents coherent procedures; identifies the different steps in the solution and carries them out by drawing on appropriate knowledge and skills. 20	Usually presents coherent procedures; generally identifies the different steps in the solution and carries them out by drawing on appropriate knowledge and skills. 16	Presents procedures that are somewhat coherent; usually identifies the main steps in the solution and carries them out by drawing on knowledge and skills that are generally appropriate. 12	Presents procedures that are not very coherent; identifies few of the steps in the solution and carries them out by drawing on knowledge and skills that are rarely appropriate. 8	Has difficulty developing procedures 4	___/20
2.1 Correct use of appropriate mathematical concepts and processes	Always applies the appropriate mathematical knowledge correctly. 15	Usually applies the appropriate mathematical knowledge correctly. 12	Sometimes applies the appropriate mathematical knowledge correctly. 9	Rarely applies the appropriate mathematical knowledge correctly. 6	Very rarely applies the appropriate mathematical knowledge correctly 3	___/15
	Always obtains the correct results. 5	Usually obtains the correct results. 4	Sometimes obtains the correct results. 3	Rarely obtains the correct results. 2	Very rarely obtains the correct results. 1	___/5

Competency 2: Uses mathematical reasoning (50%) (cont.)

Instructions:

- For each criterion, circle the statement(s) that correspond(s) to the adult learner's performance level.
- In the last column, enter the mark that corresponds to the assigned rating(s). The only mark that can be allotted for a given level is that indicated in the rubric.
- Assign a mark of 0 when the adult learner's performance does not correspond to any of the statements in the rubric.

Rating Scale Evaluation Criteria	ADVANCED competency development	THOROUGH competency development	ACCEPTABLE competency development	PARTIAL competency development	MINIMAL competency development	Mark
2.3 Proper organization of the steps in an appropriate procedure	Always presents clear and structured procedures that follow the conventions of mathematics. 5	Usually presents clear and structured procedures that follow the conventions of mathematics. 4	Presents procedures that are somewhat structured or that do not always follow the conventions of mathematics. 3	Presents procedures that are not very structured or that seldom follow the conventions of mathematics. The steps in the solution are implicit. 2	Presents procedures that are largely unstructured and does not follow the conventions of mathematics. 1	___/5
	Always gives answers consistent with the procedure used and the context. 5	Usually gives answers consistent with the procedure used and the context. 4	Gives answers that are partly consistent with the procedure used and the context. 3	Rarely gives answers that are consistent with the procedure used and the context. 2	Very rarely gives answers that are consistent with the procedure used and the context. 1	___/5
Mark for Competency 2:						___/50

