

Date: _____		Educational organization of origin: _____		
Title / Version: _____		Course Code: TSG-4059-2: General Science 1		
CONCEPTS AND TECHNIQUES				
General Concepts	Compulsory Concepts	Theory Part		Practical Part Evaluation of Competencies
		Evaluation of Competencies	Evaluation of Explicit Knowledge	
Digestive System	Types of foods: water, proteins, carbohydrates, fats, vitamins, minerals			
	Energy value of different foods			
	Transformation of food: mechanical, chemical			
	Digestive tract: mouth, esophagus, stomach, small intestine, large intestine, anus			
	Digestive glands: salivary glands, gastric glands, liver, pancreas, intestinal glands			
Nervous System	Central nervous system: brain, spinal cord			
	Peripheral nervous system: nerves			
	Sensory receptors: eye, ear, skin, tongue, nose			
Properties of Matter	Characteristic physical properties: density, solubility			
	Characteristic chemical properties: reaction to indicators			
	Properties of solutions: concentration			
Changes in matter	Particle model			
	Physical changes: dissolution, dilution			
	Chemical changes: decomposition and synthesis, oxidation			

CONCEPTS AND TECHNIQUES (Cont.)				
General Concepts	Compulsory Concepts	Theory Part		Practical Part Evaluation of Competencies
		Evaluation of Competencies	Evaluation of Explicit Knowledge	
Waves	Frequency			
	Wavelength			
	Amplitude			
	Decibel (dB) scale			
	Electromagnetic spectrum			
	Deviation of light waves			
	Focal point of a lens			
Categories of Techniques	Techniques			Practical Part Evaluation of Competencies
Experimentation	Safely using materials and equipment			
	Using observational instruments			
	Preparing solutions			
Measurement	Using measuring instruments			

The five general concepts and the two categories of techniques are covered in the examination. It is not necessary, however, to include all the compulsory concepts for a given general concept. Similarly, it is not necessary to include all the techniques for a given category of techniques.

For the knowledge targeted by the evaluation of the competencies:

Theory Part:

- At least three general concepts must be covered, among which, a representative sample of the compulsory concepts must be covered.

Practical Part:

- At least **one** of the **general concepts** must be covered.
- The **two categories of techniques** must be covered. For these two categories, at least **three techniques** listed above must be covered, including *Safely using materials and equipment*.

For the knowledge targeted by explicit evaluation:

Theory Part:

- At least **three general concepts** must be covered; those not covered in the evaluation of competencies are to be given priority.
- Priority is given to compulsory concepts that were not covered in the evaluation of competencies.

THEORY PART			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
GUIDE			
General and compulsory concepts are clearly identified.			
The number of general concepts evaluated respects the requirements of the Definition of the Evaluation Domain (DED).			
For each general concept, representative samples of the compulsory concepts are evaluated.			
Provided materials:			
• Adult's Booklet			
• Correction Key			
• Guide			
• Evaluation Booklet			
Authorized materials respect the requirements of the DED.			
Duration of the examination is 2 hours.			
ADULT'S BOOKLET—EVALUATION OF COMPETENCIES 2 AND 3—SECTION 1			
The adult learner analyzes scenarios and carries out 4 or 5 tasks related to the <i>Expertise</i> family of situations.			
These scenarios each cover an issue or technological application related to the content of the course.			
The four or five tasks are designed to be unbiased, avoiding bias related to a lack of knowledge of context, technology or situation. Each task must belong to one of the following categories. <ul style="list-style-type: none"> • Providing an explanation • Providing an opinion • Providing a calculation • Providing a representation The examination must include at least three categories of tasks.			

THEORY PART (Cont.)			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
ADULT'S BOOKLET — EVALUATION OF COMPETENCIES SECTION (Cont.)			
Tasks are complex, incorporating the following characteristics: <ul style="list-style-type: none"> • Mobilize several concepts • Permit several solutions • Use judgment, reasoning or analysis • Require an opinion or a choice to be made • Propose a problem to be solved • Mobilize the 3 evaluation criteria 			
ADULT'S BOOKLET—EVALUATION OF EXPLICIT KNOWLEDGE—SECTION 2			
This section includes 6 to 8 questions.			
Questions are devoted to the explicit evaluation of certain knowledge.			
The questions are varied in form and relate to each of the first three levels of cognitive skill (Knowing, Understanding and Applying).			
Priority is given to general concepts and compulsory concepts that were not covered in the evaluation of competencies.			

THEORY PART (Cont.)			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
ADULT'S BOOKLET GENERAL			
The visual aspect is appropriate (layout, illustrations, spaces for answers, etc.).			
The methods of representation are varied (graphs, tables, texts, equations, diagrams, etc.).			
The level of difficulty is appropriate.			
Scenarios are free of stereotypes, discrimination, and offensive elements.			
The appendices include the DED approved <i>List of Formulas</i> , <i>Periodic Table of Elements</i> and <i>Criterion-Referenced Rubrics</i> .			
Copyright:			
<ul style="list-style-type: none"> The source of each image, photo, drawing, and text is clearly indicated. 			
<ul style="list-style-type: none"> Rights have been obtained, with supporting documents clearly indicating sources (if necessary). 			
<ul style="list-style-type: none"> Content is original (not based on educational accounts or other reference materials) and is mathematically and scientifically sound. 			

THEORY PART (Cont.)			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
CORRECTION KEY			
Examples of appropriate responses are provided for all tasks and questions.			
Marking scales are clear.			
A total of 20 marks are allotted for the explicit knowledge section.			
EVALUATION BOOKLET			
The information gathering tool contains observable elements for each criterion evaluated.			
Each observable element connects with the concepts evaluated and respects the criterion evaluated.			
The observable elements guide evaluation with the Criterion-Referenced Rubrics.			
Evaluation with the Criterion-Referenced Rubrics is necessary to establish a mark of 40 for the evaluation of the competencies.			
CONCORDANCE OF BOOKLETS			
There is a concordance between all the documents: <i>Guide, Adult's Booklet, Correction Key, and Evaluation Booklet.</i>			

PRACTICAL PART			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
GUIDE			
The general and compulsory concepts evaluated as well as the category of techniques and the techniques are clearly identified.			
Provided materials: <ul style="list-style-type: none"> • Adult's Booklet • Correction Key • Guide • Evaluation Booklet 			
Duration of the examination is 2 hours.			
The list of materials needed for the experiment is provided for the adult.			
Instructions for preparing laboratory materials are provided for the technician.			
Evaluation instructions are provided. The appendix contains the Decision Tree, Supervisor's Checklist and the Plan of Action (if needed).			
ADULT'S BOOKLET			
The scenario is safe for the adult and safety instructions are clearly stated, if necessary.			
The adult must solve a problem related to the course content using an experimental method which includes: <ul style="list-style-type: none"> • Represent the situation. • Develop a suitable plan of action. • Implement the plan of action. • Analyze the results. • Provide an explanation and a conclusion linked to the goal and hypothesis. 			

PRACTICAL PART (Cont.)			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
ADULT'S BOOKLET (Cont.)			
The template complies with the DED.			
The task is complex with the following characteristics: <ul style="list-style-type: none"> Mobilizes several concepts. Permits several solutions. Proposes a problem to be solved using the experimental approach. Requires the development of a plan of action following an outline that is provided. Uses judgment and reasoning during analysis. 			
The level of difficulty is appropriate.			
Scenarios are free of stereotypes, discrimination, and offensive elements.			
The appendices include the DED approved <i>List of Formulas</i> , <i>Periodic Table of Elements</i> and <i>Criterion-Referenced Rubrics</i> .			
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PRACTICAL PART (Cont.)			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
CORRECTION KEY			
Examples of appropriate responses are provided for all tasks.			
Examples of appropriate responses are clear.			
EVALUATION BOOKLET			
The information gathering tool contains observable elements for each criterion evaluated.			
Each observable element connects with the concepts evaluated and respects the criterion evaluated.			
The observable elements guide evaluation with the Criterion-Referenced Rubrics.			
Evaluation with the Criterion-Referenced Rubrics is necessary to establish a mark of 40 for the evaluation of the competencies.			
CONCORDANCE OF BOOKLETS			
There is a concordance between all the documents: <i>Guide, Adult's Booklet, Correction Key, and Evaluation Booklet.</i>			