

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 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, pancreas, liver, intestinal glands			
Nervous System	Central nervous system: brain, spinal cord			
	Peripheral nervous system (nerves): neuron (synapse, axon, dendrites) and neural inflow (voluntary act, reflex arc)			
	Sensory receptors: eye, ear, skin, tongue, nose			
Properties of Matter	Particle model			
	Characteristic physical properties: melting point, boiling point, density, solubility			
	Characteristic chemical properties: reaction to indicators			
	Properties of solutions: concentration, solute, solvent			

General Concepts	Compulsory Concepts	Theory Part		Practical Part
		Evaluation of Competencies	Evaluation of Explicit Knowledge	
Transformations of Matter	Physical changes: dissolution, dilution, phase changes			
	Forms of energy: chemical, thermal, mechanical, radiant			
	Chemical changes: decomposition and synthesis, oxidation, precipitation			
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
Laboratory Work	Safely using materials and equipment	
	Using observational instruments	
	Preparing solutions	
	Collecting samples	
Measurement	Using measuring instruments	

All five general concepts are evaluated in the examination. However, it is not necessary to evaluate all the compulsory concepts for each general concept.	
Evaluation of competencies: <ul style="list-style-type: none"> • Five general concepts and representations of the compulsory concepts are evaluated. • The two categories of techniques are evaluated. Three of the five techniques are evaluated, including <i>safely using materials and equipment</i>. 	
Explicit evaluation of knowledge: <ul style="list-style-type: none"> • Four to five general concepts are evaluated. Priority is given to the compulsory concepts that have not been evaluated during 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 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 SECTION			
1 to 3 Scenarios with 4-7 tasks (at least one task per scenario).			
The scenarios are open-ended and present a problem to be solved as well as an opinion, comparison, or choice to be made.			
Tasks are complex; they are related to the context of the scenario.			

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			
The booklet comprises 3 to 8 questions.			
Questions contain minimal or no context.			
The questions are varied in form and relate to each of the first 3 levels of cognitive skill (Knowing, Understanding and Applying).			
Concepts not assessed in the evaluation of competencies section are taken into account.			

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, discriminations or offensive elements.			
Content is original (not based on educational accounts or other materials) and is mathematically and scientifically sound.			
The appendices (tables, formulas and quantities) are complete and conform to the DED.			
Copyright:			
<ul style="list-style-type: none"> • Rights have been obtained, with supporting documents clearly indicating sources (if necessary). • The images and texts are copyright-free; the source of each image and text is clearly indicated underneath it. • In the case of photos or drawings made by the authors of the exam, a letter granting copyright permission to GRICS is attached to the examination. 			

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 checklist contains observable actions for each criterion.			
Each observable action connects with the concepts evaluated and respects the elements of the evaluation criteria.			
The observable actions can be evaluated using the Criterion-Referenced Rubrics.			
A total of 40 marks are allotted for the evaluation of competencies section.			
CONCORDANCE OF BOOKLETS			
There is a concordance between all the documents: <i>Guide, Adult's Booklet, Correction Key, and Evaluation Booklet.</i>			

PRATICAL 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.			
The number of categories of techniques and the techniques evaluated respects the requirements of the DED.			
The general and compulsory concepts evaluated are coordinated with the theory section.			
Provided materials:			
• Adult's Booklet			
• Correction Key			
• Guide			
• Evaluation Booklet			
Duration of the examination is 2 hours.			
A list of materials required is provided.			
If necessary, instructions for the preparation of laboratory materials are provided.			
The appendix includes a list of materials as well as the procedure to be given to the adult, if requested.			

PRATICAL PART (Cont.)				
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions	
ADULT'S BOOKLET				
The scenario is safe; safety instructions are clearly stated when needed.				
The scenario proposes at least four tasks associated with each of the four evaluation criteria.				
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 • Requires the development of a laboratory report, following an outline that is provided • Uses judgment, reasoning or analysis • Mobilizes the 4 evaluation criteria 				
Content is original (not based on educational accounts or other materials) and is mathematically and scientifically sound.				
The level of difficulty is appropriate.				
Scenarios are free of stereotypes, discriminations or offensive elements.				

PRACTICAL PART (Cont.)			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
ADULT'S BOOKLET (Cont.)			
The appendices (tables, formulas and quantities) are complete and conform to scientific conventions.			
Copyright:			
<ul style="list-style-type: none"> • Rights have been obtained; supporting documents clearly indicate sources (if necessary). • The images and texts are copyright-free; the source of each image and text is clearly identified underneath it. • In the case of photos or drawings made by the authors of the exam, a letter granting copyright permission to GRICS is attached to the examination. 			
CORRECTION KEY			
Examples of appropriate responses are provided for all tasks.			
EVALUATION BOOKLET			
The checklist contains observable actions for each criterion.			
Each observable action connects with the concepts evaluated and respects the elements of the evaluation criteria.			
The observable actions can be evaluated using the Criterion-Referenced Rubrics.			

PRACTICAL PART (Cont.)			
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions
EVALUATION BOOKLET (Cont.)			
A total of 40 marks are allotted.			
CONCORDANCE OF BOOKLETS			
There is a concordance between all the documents: <i>Guide, Adult's Booklet, Correction Key, and Evaluation Booklet.</i>			