Date:	Educational organization of origin:					
Title / Version:	Course Code: CHE-5062-2: Kinetics and Equilibrium					
	CONCEPTS AND TECHNIQUE	ES				
		Theor	y Part			
General Concepts	Compulsory Concepts	Evaluation of Competencies	Evaluation of Explicit Knowledge	Practical Part		
Position Pata	Factors that influence the reaction rate					
Reaction Rate	Reaction Rate Rate law					
	Factors that influence the state of equilibrium					
	Le Châtelier's principle					
Chemical Equilibrium	Equilibrium constant					
	Relationship between the pH and the molar concentration of hydronium and hydroxide ions					
Categories of Techniques	Techniques			Practical Part Evaluation of Competencies		
	oratory Work       Safely using laboratory materials and equipment         Preparing solutions       Image: Safely using laboratory materials and equipment					
Laboratory Work						
Magazin	Checking the reliability, accuracy and sensitivity of measuring instru					
Measurement	Interpreting measurement results (significant figures, measurement					



The two general concepts as well as all of the compulsory concepts are evaluated throughout the entire examination which respects the requirements of the DED.				
Evaluation of competencies:				
<ul> <li>The two general concepts are evaluated. For these general concepts, a representative sample of the compulsory concepts is evaluated.</li> </ul>				
• Both categories of techniques are evaluated. For both categories, at least three techniques are evaluated.				
Evaluation of explicit knowledge:				
<ul> <li>The two general concepts are evaluated. For these general concepts, priority is given to compulsory concepts that were not evaluated in the evaluation of competencies.</li> </ul>				

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 – EV	ALUATION OF (		S SECTION (Cont.)			
Tasks are complex, incorporating the following characteristics:						
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	
AC		T 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 <b>original</b> (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> <li>Rights have been obtained, with supporting documents clearly indicating sources (if necessary).</li> </ul>			
• The images and texts are copyright-free; the source of each image and text is clearly indicated underneath it.			
<ul> <li>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.</li> </ul>			



THEORY PART (Cont.)					
Global Appreciation	Satisfactory	Revision Required	Comments and Suggestions		
	CORRECTIO	NKEY			
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 3 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 and the prototype examination.							
The task is complex with the following characteristics:							
Mobilizes several concepts							
Permits several solutions							
<ul> <li>Proposes a problem to be solved</li> </ul>							
<ul> <li>Requires the development of a laboratory report</li> </ul>							
<ul> <li>Uses judgment, reasoning or analysis</li> </ul>							
Mobilizes the 4 evaluation criteria							
Content is <b>original</b> (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			
A	ADULT'S BOOKLET (Cont.)					
The appendices (tables, formulas and quantities) are complete and conform to scientific conventions.						
Copyright:						
<ul> <li>Rights have been obtained; supporting documents clearly indicate sources (if necessary).</li> </ul>						
<ul> <li>The images and texts are copyright-free; the source of each image and text is clearly identified underneath it.</li> </ul>						
• 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>					

