

Unit Title:	Chemistry Unit II
Level:	Three
Credit Value:	9
GLH:	
NOCN Unit Code:	RD1/3/TE/014
QCA Unit Reference	
Grading Descriptors:	4, 7

This unit has 5 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Describe the factors which affect the rate of a chemical reaction	1.1. Produce and use results from simple experiments to illustrate the effect of different factors on rate 1.2. Offer chemical reasons for difference 1.3. Evaluate the relative significance of different factors 1.4. Relate concentration effects to the rate equation
2. "Use observations of organic chemical changes and explain these in appropriate terminology, limited to alkanes, alcohols, carboxylic acids and esters"	2.1. Use simple terms and nomenclature 2.2. Describe in chemical terms what can be observed to be happening in reactions 2.3. Offer explanations for these changes 2.4. Discuss the significance of observations
3. Make predictions based on chemical facts, data and or observations using appropriate chemical principles on reactions of compounds"	3.1. On the basis of information given use chemical ideas to predict changes 3.2. Explain the reason for these changes e.g. effect of temperature on an equilibrium reaction 3.3. Compare the relative significance of different factors e.g. kinetic and equilibrium factors on an equilibrium process

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
4. Understand the significance of Chemistry in industry and its impact on society and to the environment	4.1. Recognise the chemical ideas behind industrial processes 4.2. Recognise when a chemical process has impacted on the outside world giving appropriate examples 4.3. Explain why processes have had this impact e.g. Haber process for fertiliser production 4.4. Evaluate the relative significance of a process, discussing its advantages and disadvantages e.g. Haber process for fertiliser also used to manufacture explosives and create eutrophication
5. Work safely and competently in the laboratory	5.1. Perform experiments safely and competently as instructed taking account of potential hazards and changing conditions 5.2. Modify experiments and evaluate different procedures

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ASSESSMENT INFORMATION

Guidance:

This grid gives details of the assessment activities to be used with the unit attached. Please refer to the NOCN Handbook for definitions of each activity and the expectations for assessment practice and evidence for moderation.

The assessment activities for this unit are indicated in the table below:

Key: P = Prescribed – this assessment method *must* be used to assess the unit.
O = Optional – this assessment method *could* be used to assess the unit.

Case study		Project	
Written question & answer/test/exam		Role play/simulation	
Essay		Practical demonstration	
Report		Group discussion	
Oral question and answer		Performance/exhibition	
Written description		Production of artefact	
Reflective log / diary		Practice file	

Signposting Key Skills

This unit offers clear opportunities for learners to provide evidence of achievement in Key Skills achievement in the following skill area/s:

Key Skill		Wider Key Skill	
Communication		Working with others	
Information Technology		Problem solving	
Application of Number		Improving Own Learning and Performance	

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Accredited Start date:
Accredited End date:
Unit Sector/Subject area:
Grading descriptors:
Availability for Use:

Purpose and Aim of the Unit	Free Text
Restrictions on the Availability	Free Text or N/A
Additional Assessment Requirements	Free Text or N/A
Details of relationship between the Unit and the NOS	Free Text or N/A
Details of relationship between the Unit and Standards (not NOS)	Free Text or N/A
Endorsement of the Unit by	Free Text or N/A