



Unit Assessment Record (UAR)

Separation Processes III (A27A 04)

Credit Value: 1

NB: After entering your personal details please pass this document to your tutor for completion and eventual return to COLU. You may wish to retain a copy for your own use.

TITLE:	SURNAME:	UNIT TUTOR:
FORENAME(s):	CENTRE:	
HOME ADDRESS:	ADDRESS:	
.....	
.....	
POST CODE:	POST CODE:	
HOME TEL:	TEL NO:	
WORK TEL:	FAX NO:	
FAX NO:	E-MAIL:	
E-MAIL:	CENTRE CONTACT:	

SQA REG. NO:	UNIT START DATE:
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AUTHENTICATION OF EVIDENCE – INTERVIEW **DATE:**

PORTFOLIO OF EVIDENCE AVAILABLE

EVIDENCE AUTHENTICATED

ALL OUTCOMES SATISFIED

Please initial as appropriate

NOTES:

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GRADE

REFER PASS MERIT

FINAL GRADE: Please initial as appropriate

ASSESSOR:

DATE:



FOR COLU USE ONLY

VERIFIER:..... DATE:

Evidence Log – For each of the performance criteria please clearly identify the evidence within the portfolio that satisfies the criterion fully with respect to range and evidence requirements as stated in the unit specification.

1) Analyse the factors which affect the design and operation of drying equipment

TMA Evidence

Supplementary Evidence & Location

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| (a) Description of the principles and mechanism of drying in terms of moisture content and relative humidity are correct for a given set of conditions. |
| (b) Identification of the factors which affect the rate of drying is correct for a given set of conditions. |
| (c) Construction and interpretation of weight-loss/time graphs is correct for a given set of conditions. |
| (d) Evaluation of the importance of weight-loss/time graphs in achieving optimum operating conditions is correct for a given set of conditions. |

2) Appraise the design and performance of drying equipment

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| (a) Identification and descriptions of standard types of drying equipment are correct in terms of their operating conditions. |
| (b) Comparisons of the performance of the standard types of drying equipment are accurate in terms of efficiency running costs for a given set of conditions. |
| (c) Selection of a piece of drying equipment for a given duty is correct in terms of current industrial practice. |

3) Appraise the design, operation and performance of sedimentation equipment

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| (a) Evaluation of the factors which affect the rate of sedimentation is correct in terms of the physical properties of the particles and fluid concerned. |
| (b) Solutions to problems relating to sedimentation processes are correct, logical and accurate for a given set of conditions. |
| (c) Descriptions of sedimentation equipment in terms of their operational features are correct in accordance with current practice. |
| (d) Evaluation of the design of sedimentation equipment for a given duty is correct in terms of current industrial practice. |

4) Appraise the design and performance of equipment used for gas cleaning

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| (a) Evaluation of factors affecting the selection of gas cleaning techniques is correct in terms of current industrial practice. |
| (b) Identification and descriptions of the standard types of gas cleaning equipment are correct in terms of their operating principles. |

Assessment Matrix – The matrix indicates which instruments of assessment, within the primary assessment package, are required to satisfy individual performance criteria.

The column titled **Merit** identifies where particular opportunities exist for candidates to develop their work with a view to satisfying the requirements for the award of merit.

The row titled **Minimum Evidence Requirement** indicates the minimum number of examples required (or times a task must be performed) to satisfy a particular performance criterion.

Separation Processes III

OUTCOMES/PERFORMANCE CRITERIA		Qu	1a	1b	1c	1d	2a	2b	2c	3a	3b	3c	3d	4a	4b	4c	4d	Merit	
EVIDENCE	TMA - 1 (1-4)	1	X	X															
		2			X	X													
	TMA - 1 (5-8)	1					X		X										
		2					X	X											
		3					X	X											
		4							X										
		5						X											
		6						X											
		7						X											
	TMA - 2	1								X	X								
		2								X									
		3									X								
		4										X							
		5											X						
		6												X					
		7										X							
	TMA - 3	1														X			
		2													X			X	
		3															X		
		4													X				
	TMA - 4	1													X		X		
		2														X			
		3														X		X	
		4														X			
		5																	
		6															X		
	MINIMUM EVIDENCE REQUIREMENT			1	1	1	1	3	5	2	2	2	2	2	3	4	3	2	1

Merit Statement – The award of merit will be made to candidates who satisfactorily meet all of the performance criteria for unit, and in addition:

- (a) show a logical presentation of work within all assignments
- and
- (b) show a systematic approach to the solution of problems of a more complex nature.