



Unit Assessment Record (UAR)

Vibration Analysis

(D3RF 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	<input type="checkbox"/>
EVIDENCE AUTHENTICATED	<input type="checkbox"/>
ALL OUTCOMES SATISFIED	<input type="checkbox"/>
Please initial as appropriate	
NOTES:	
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GRADE	REFER	PASS	MERIT	
FINAL GRADE:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 the range and evidence requirements as stated in the unit specification.

1) Explain the general principles of vibration analysis

TMA Evidence

Supplementary Evidence & Location

(a) Statements of the general principles of vibration analysis are appropriate to specified stages of application.

2) Identify causes of vibration

(a) Descriptions of different causes of vibration are clear.

(b) Identification of vibration components is correctly associated with specific sources.

3) Describe vibration analysis equipment

(a) Descriptions of portable vibration analysis equipment are clear.

(b) Descriptions of continuous monitoring data collection equipment are sufficient to explain their operating principles.

4) Analyse the characteristics of vibration and noise

(a) Relationships between the characteristics of vibration are clearly explained in terms of their definitions and mathematical expressions.

(b) Relationships between the characteristics of noise are clearly explained in terms of their definitions and mathematical expressions.

(c) The employment of a 'vibration severity chart' to assess machine condition is clearly explained.

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.

Vibration Analysis

OUTCOMES/PERFORMANCE CRITERIA		Qu	1a	2a	2b	3a	3b	4a	4b	4c	Merit
EVIDENCE	TMA - 1 (v2)	1	X								
		2	X								
		3			X						
	TMA - 2 (1-4) (v2)	1						X			
		2								X	
		3							X		
		4							X		
	TMA - 3 (1-6) (v2)	1					X				
		2					X				
		3					X	X			
		4						X			
	TMA - 4 (v2)	1				X					
		2			X	X					
		3				X					
		4				X					
		5							X		
SUMMATIVE ASSIGNMENT (v2)											X
MINIMUM EVIDENCE REQUIREMENT			2	2	4	3	2	2	2	1	3

Merit Statement

To gain a pass in this unit, a candidate must meet the standards set out in the outcomes, performance criteria, range statements and evidence requirements.

To achieve a merit in this unit, a candidate must demonstrate a superior or more sophisticated level of performance. In this unit this might be shown in the following ways:

- (a) use of individual performance criteria in a creative way to solve unfamiliar problems
- (b) depth of further reading or research.