

Matrix of LEV knowledge guidance for key roles:

LEV Test Engineer

Last modified 21-5-2018

Topic	Knowledge Requirements:	Employer-related personnel	Guidance Information		BOHS Qualifications (or equivalent)	
			G	J	L	M
		LEV Test Engineer				
	ESSENTIAL LEARNING	G, L				
	DESIRABLE LEARNING	J, M				
Preparation of LEV specification & quotation	Properties of airborne contaminants: principles	3	✓		*	*
	Recognition of hazards from process materials	3	✓		*	*
	Recognition of hazardous substances generated by the process	3	✓			*
	Understanding of the nature of sources of airborne contaminants in the process	3	✓			*
	Understanding of process requirements	3		✓		
	Understanding of statutory requirements for control	3	✓		*	*
Design of LEV system	Selection of a control benchmark	3	✓			**
	Selection of a control requirement	3	✓			**
	Components of LEV systems	3	✓	✓	*	**
	Characteristics of different hood types	3	✓	✓	*	**
	Principles of LEV hood design	3	✓	✓	*	**
	Selection of appropriate hoods for the application	3	✓		*	**
	Principles of good ductwork design	3	✓	✓	*	**
	Need for system monitors & alarms	3	✓			**
	Characteristics of fans/air movers	3	✓	✓	*	**
	Characteristics of air cleaners/filters	3	✓	✓	*	**
	Air discharge and filtrate removal arrangements	3	✓		*	**
	DSEAR/ATEX Requirement inc explosion relief	3		✓	*	**
	Recirculation of filtered air	3	✓		*	**
	Provision of makeup air/ impact on general workroom ventilation	3	✓		*	**
	Impact on workroom and external environment	3	✓		*	**
	Ergonomic and safety considerations	3	✓	✓	*	
Arrangements for maintenance, cleaning, inspection and test	3	✓	✓	*		
Installation & commissioning of LEV system	Installation of hardware: mechanical	2				
	Installation of hardware: electrical	2				
	Balancing of system	2	✓		*	*
	Technical performance testing	2	✓		*	*
	Qualitative assessment of control effectiveness	2	✓		*	*
	Quantitative assessment of control effectiveness	2	✓		*	*
	Commissioning report	2	✓	✓		
	Provision of System manual	1	✓	✓		
Provision of System logbook	1	✓	✓			
Thorough examination & test of LEV system	Pre-work risk assessment	3	✓		**	
	Visual examination of system	3	✓	✓	**	
	Technical performance measurement	3	✓	✓	**	
	Assessment of control effectiveness	3	✓	✓	**	
	Thorough examination and test report	3	✓	✓	**	
Maintenance	Completion of Logbook	3	✓	✓		
	Routine inspections	2	✓		*	
Changes & modifications	Modifications & changes	3	✓			
	Re-commissioning	1	✓			
	User training	2	✓	✓		
LEV Professional	Guide to typical relevant experience (in years) to include: • Portfolio • Interview • References	2				

Notes:
 1. Evidence of other experience e.g. UKAS, ILEVE, BOHS etc.
 2. * From January 2018, BOHS P601 is a pre-requisite to P604.

Key:
 1: Basic knowledge
 2: Good knowledge of topic
 3: Detailed knowledge of topic

BOHS Qualifications Key:
 * Basic information on topic
 ** Detailed information on topic