

Matrix of LEV knowledge guidance for key roles:

Last modified 21-5-2018

Topic	Knowledge Requirements:	Employer-related personnel	BOHS Qualifications (or equivalent)		
		LEV Organisation Technical Engineering Manager	<small>PD2: Basic design principles of LEV systems (inc. report submission)</small> M	<small>PD4: Performance evaluation and management (inc. report submission)</small> N*	<small>Certificate of Competence Control</small> O
	ESSENTIAL LEARNING	M, N			
	DESIRABLE LEARNING	O			
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	3			
	Installation of hardware: electrical	3			
	Balancing of system	3	*	**	✓
	Technical performance testing	3	*	**	✓
	Qualitative assessment of control effectiveness	3	*	**	✓
	Quantitative assessment of control effectiveness	3	*	**	✓
	Commissioning report	3		**	✓
	Provision of System manual	3		**	✓
	Provision of System logbook	3		**	✓
End User Training	3		**	✓	
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	2		**	✓
	Routine inspections	2		**	✓
	Routine maintenance	2		**	✓
	Repairs and remedial works	2		**	✓
Changes & modifications	Modifications & changes	3		**	✓
	Re-commissioning	3		**	✓
	User training	3		**	✓
LEV Professional	Guide to typical relevant experience (in years) to include: • Portfolio • Interview • References	5+			
Notes: 1: Evidence of other experience e.g. UKAS, ILVE, BOHS 2: From January 2018, BOHS PD4 is a pre-requisite to PD2					
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					