Procuring New Equipment

Before obtaining new equipment the following issues need to be considered

Introduction

The purpose of this document is to help address the following issues before purchasing or otherwise obtaining new equipment:

- Selection of equipment: select equipment that complies with all regulatory and statutory requirements (*including CE Marking*, etc.).
- Identification of utilities required: identify the services and location requirements (e.g. *electrical supply required, water supply, specialist gases, monitoring systems,* etc.).
- Consideration of safe use: how the equipment will be safely operated (*risk assessment and training provisions*).

The utility requirements may dictate location, for instance, if the new equipment requires fume extraction this may mean that the location may have to be close to the roof or if floor vibration were an issue then the instrument would be better on a ground floor location. Sometimes unconsidered installation requirements have high costs and so identifying these requirements beforehand is crucial.

This guidance is primarily intended for equipment that may present significant risks by its intrinsic nature and method of operation, agents used in conjunction with it or the environment it is used in. For example:

- Machinery, electrical equipment, pressurised equipment, equipment that emits radiation, equipment used at height, etc.
- Equipment used in association with chemical, radioactive or biological agents, etc.
- Equipment that is used in adverse conditions including wet or explosive environments, etc.

For most proprietary equipment, if recently purchased and used in low risk environments, no action will be needed, e.g. general office equipment, personal computers, etc.

Fulfilment of these requirements will ensure compliance with The Provision and Use of Work Equipment Regulations 1998 and The Supply of Machinery (Safety) Regulations 1992.

The University document 'Guidance on Equipment Provided for Use at Work GUIDANCE/1/EPUW/04' should be read in conjunction with this form:

https://intranet.birmingham.ac.uk/hr/documents/public/hsu/hsuguidance/1epuw.pdf

Requirements and Modifications to Infrastructure

Manufacturers or suppliers often send out a 'pre- installation check list' which puts all of the responsibility on the buyer to have everything in place prior to the commissioning engineers visit. The checklist can be ambiguous, therefore it is strongly recommended that you ask for the Installation Engineer to attend site and to go through the pre-installation check list with you. It is advisable to do this before making the purchase as the cost of any extras could form part of any negotiated purchase deal.

The pre- installation check list and the installation manual will help you to collect the information required below, it is useful to request these from the outset – you will need both before making a purchase.

You should bear in mind that if any alterations to the building e.g. refurbishment, new build or installation of utilities are required then it will need approval by Estates. Small scale works can take weeks to months to arrange whereas larger projects can take up to a year to consult/design, tender and construct.

Risk Assessment and Standard Operating Procedures

Risk assessment and safe operation should be considered now; one or more risk assessments and a standard operating procedure will need to be completed before the equipment is first used. Training should be provided by a competent person and a record of trained users maintained.

Issues for Consideration

Once completed this form must be discussed with your Local Technical Manager and Health and Safety Coordinator before placing an order. If you do not do this you may find it difficult/impossible to commission the equipment once it arrives on site.

Information about the equipment					
Name of Equipment:					
Name of supplier:					
Who is funding the equipment (EPSRC etc.)?					
Purpose/function of equipment:					
Proposed location:					
Please ask the supplier to confirm/supply the follow	wing before purchase.				
Does the equipment comply with current legislation and standards?					
Is the equipment CE marked?					
If the equipment is second hand have any modifications been made since CE marking?					
Will a pre-installation checklist be provided? Please request this now.					
Will an installation manual be provided?					

Location requirements							
Size of the room – is the room/la							
to house the equipment and anci							
Floor Loading – what is the weigh	•						
9	equipment, will the floor need to be reinforced						
or is a vibration free floor require							
Lighting – Is the lighting sufficient							
work, are filters required etc.	. Tor people to						
Security – is a standard key lock s	ufficient or is						
swipe card access required for H8							
Decoration – Painting of the walls							
special floor covering and furnitu	•						
Benching – Will there be a require							
laboratory benching, chemical re							
Data Points – How many data poi							
required?	into will be						
Telephone Point – will there be a	requirement						
for a telephone point?	. 545 61116116						
Are there any noise consideration	ns? Will sound						
proofing and/or PPE be required?							
, ,		l					
	Equipment r	equirements					
Power – What are the requireme	nts, what is the						
current rating and what type of b	reaker						
protection will be required, how	many separate						
circuits will be required?							
Will the equipment require cooling	_						
the water chiller be in the room/	ab (noise						
implication) or external to the bu	<u> </u>						
cost of the chiller and its installat	ion included in						
the purchase price?							
Will the equipment require a con	pressed air						
supply?							
•	Will the room require cooling, air conditioning?						
State any tolerance.							
Will the equipment require a specialist gas supply, please list gases below?							
Name			Hazard Statements				
Ivaille	riessule		Hazard Statements				
Will any of the gases required be							
so the lab may require gas detect							
to be installed and 4 hour fire res							
ventilated storage unit if the cylinders are to be							
stored and used in the room/lab.							

Will any of the gases requ						
asphyxiant? If so the lab may require gas						
detection monitor(s) to be installed.						
Will the equipment requi						
liquid refrigerant? e.g. Lic		•				
Helium? If so the Lab will		gen				
Depletion Monitor(s) to b	e installed.					
Hazardou	s substance	s to be used (e	xcluding gases	s discussed above):		
List any hazardous substances to be used with the equipment:						
Name	CAS	Form	Amount	Hazard statements		
Nume	C/ (S	(liquid, solid etc.)	7 tinount	Hazara statements		
		1				
List any biological substar			uipment and s			
Name	Тур	oe		Class		
LEV (Local Extract Ventila	tion) – Does	the (Comments:			
equipment have a vacuur			comments.			
fume/dust extraction? If	•	•				
be an extract system installed to either remove						
the vacuum pump exhaus						
extract hood to remove f		•				
·						
Warranties and Maintenance Contracts						
Please consider an extended warranty or		y or (Comments:			
maintenance contract as	call-outs cha	arges and				
parts costs can be conside	erable.					
Date form completed:						

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