

GUIDE TO HEALTH & SAFETY RISK ASSESSMENT

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GUIDE TO HEALTH & SAFETY RISK ASSESSMENT

A. INTRODUCTION

The Management of Health and Safety at Work Regulations 1992 (revised in 1999), require employers to make a suitable and sufficient assessment of the health and safety risks to employees and non-employees, arising from their work activities. Risk assessment is now a common requirement of all health and safety legislation, the emphasis is now on preventing accidents and work-related ill health, rather than just reacting to incidents, and making improvements after the event.

So, what are we trying to prevent?

- Accidents causing injury or death
- Near misses (because they could well cause injury if they happen again)
- Work-related ill health
- Repetitive / accumulated strain injuries
- Damage to equipment and the environment
- Stress related ill health / mental health problems

This guide explains how Schools and Directorates should allocate responsibilities for carrying out risk assessments. A step-by-step guide to the process of conducting assessments is provided and a hazard checklist is included to help you get started. Risk assessment forms are also provided, which should be used to record assessments. Examples of assessments are also included as appendices.

What do we mean by 'suitable and sufficient' risk assessment?

By law employers have to carry out risk assessments that are 'suitable and sufficient', this means that assessments should:

- Be comprehensive and cover the hazards and significant risk of <u>all</u> work activities, including routine and non-routine work, one off as well as regular activities, research work as well as teaching classes, low risk and high risk work, off campus activity as well as activities taking place on our premises;
- Be systematic in the way in which hazards are identified, risks are assessed and controls are implemented;
- Include risks to health as well as safety, and include risks to mental health;
- Take account of risks to non-employees, which in our case includes students, visitors, contractors and guests at events;
- Identify groups of people who may be particularly at risk, such as young or inexperienced persons, expectant mothers, visitors unfamiliar with the premises, and people with disabilities or health conditions.
- Be undertaken before new workplaces are built i.e. at the design stage (not as an after-thought when making modifications can be more difficult and very expensive.
- Ensure the findings of assessments are brought to the attention, in a meaningful and comprehensible way, of those exposed to the risks.

What is the difference between 'hazard' and 'risk'?

A *hazard* is something that has the potential to cause harm, i.e. an activity such as lifting and carrying, using machinery, moving vehicles, using chemicals etc. The *risk* is the likelihood that harm will result from the activity. For example, asbestos is a hazard, but the level of risk it poses will depend on its type and condition, where it is located and whether it is likely to be disturbed in the future. Appendix 4 contains a checklist of the common workplace health and safety hazards you may encounter.

How far should we go in reducing risk? - 'so far as is reasonably practicable'

Most health and safety legislation requires employers to reduce risk 'so far as is reasonably practicable'. This means that we must aim to strike a balance between the level of risk on one hand, and the physical difficulty, time, effort and expense, which would be involved in taking steps to reduce or avoid the risk, on the other hand. Therefore higher risks justify greater effort to control and reduce them. In a court of law, it would be up the University to prove that it was not reasonably practicable to do more. The risk assessment process outlined in this Guide should help provide the justification for choosing certain risk controls (and not choosing others).

B. WHO SHOULD BE DOING RISK ASSESSMENTS?

Heads of School / Directorates are responsible for ensuring that suitable and sufficient assessments of the work activities of their areas are undertaken. They are also responsible for ensuring that risks are adequately controlled and assessments are reviewed on a regular basis. Heads must provide staff with adequate support, time and resources to undertake assessments and ensure that assessors are competent.

In practice, the task of actually carrying out risk assessments is usually delegated to those people who are most familiar with the activity, project or equipment being assessed or who create the risk. These individuals, who must attend relevant training, may be local managers, academic supervisors or individuals directly involved in the work; they will understand the nature of the work and are best placed to ensure that on a day-to-day basis, risks are adequately controlled. There should also be consultation with union safety representatives, where these are located in the areas concerned.

Heads of School / Directorates should identify in their Area Safety Code or local Health and Safety Policy, which individuals or groups of individuals are responsible for carrying out risk assessments and keeping them up to date. The Head should also arrange for a **Register of Risk Assessments** (see Appendix 3) to be maintained locally and a copy forwarded to Health & Safety Services and the University Health and Safety Committee, when required (see Section F for more details).

There is no prescribed way of allocating these responsibilities, as this will vary from area to area according to structure and activities and should be determined locally by the Head of School / Directorate. However to assist in this process, Table 1 (over page), may be used as a guide.

Heads of School / Directorates may appoint one or more persons to specialise in certain types of risk assessment (for example, display screen work, manual handling or work with hazardous substances under COSHH). Specific training courses are available from Health & Safety Services for these risk assessments – see Section C for more information.

Area or type of work	Person allocated responsibility for carrying out risk assessments (they may delegate the actual task)
Teaching laboratories	Specified academic in charge of laboratory
Research laboratories	Research supervisor or principal investigator
Work with sources of radiation	Research supervisor or principal investigator – overseen by School Radiation Protection Supervisor
Work with lasers	Research supervisor or principal investigator – overseen by School Laser Supervisor
Central teaching areas (e.g. seminar / lecture theatres)	Support Services Manager, Facilities Management Directorate
Administrative areas	Senior Administrative Officer / supervisor
Individual offices	Each occupier. Alternatively, a person nominated to co- ordinate these (e.g. Area Health & Safety Co-ordinator)
Workshops	Workshop supervisor
Store Rooms	Supervisor in charge
Common areas within departments (e.g. meeting rooms, corridors with departmental access only)	Senior Administrative Officer or Area Health & Safety Co- ordinator
Building fire safety	Area Health & Safety Co-ordinator or Building Superintendent
	University Fire Safety Adviser
Student activities off site (e.g. organised visits and field work)	Academic in charge (fieldwork Supervisor)
Activities of students on placements	Academic in charge (Placement Organiser) must assess the suitability (including health and safety) of the placement and ensure a risk assessment of the work of the student, is undertaken by the organisation providing the placement.
Catering facilities	Manager or Hall Caterer
Halls of Residence	Hall Manager or deputy
Other work within Directorates	Area manager or assistant
Social Events	Event Organiser in consultation with Event Safety Controller
Open days, school visit etc.	Event organiser
Work with Genetically Modified Organisms	GM Project Supervisor
Monitoring of risk assessments	Area Health and Safety Committee members during regular inspections or Area Safety Co-ordinator

Table 1: Guide to allocating risk assessment responsibilities

The role of Area Health & Safety Co-ordinators

Area Health & Safety Co-ordinators are **not** responsible for risk assessments by virtue of being an Area Health & Safety Co-ordinator. They may of course be allocated such responsibility for the area in which they work. They should be able to provide information and advice, and will usually be involved in checking workplaces to see if suitable and sufficient risk assessments are in place.

They may be asked, on behalf of their Head of School or Director, to co-ordinate the risk assessment process, maintain the Risk Assessment Register, and make the latter available for monitoring purposes.

C. SPECIFIC GUIDANCE, RISK ASSESSMENT REQUIREMENTS & TRAINING

In additional to the general requirement for risk assessments, as required under the Management of Health and Safety at Work Regulations, there are other specific sets of Regulations which require risk assessment of particular hazards - indeed a requirement for risk assessment is now a common theme of all new health and safety regulations.

University health and safety guidance has been produced for many of the hazards and legal requirements that relate to the work of the University, and other guidance is continually being developed. Before embarking on your risk assessments, you should check what University guidelines exist, so you are familiar with the legal requirements and standards, relating to the hazard in question. A complete list of University health and safety guidance can be found on the Health & Safety Services website (see Section J: Further Information & Guidance, for details) or copies can be from the Health & Safety Services Office.

The hazards relevant to the University are listed in the *Hazard Checklist* in Appendix 4. For most hazards you can simply follow the step-by-step risk assessment procedure outlined in this guide and use one of the risk assessment forms provided in Appendix 1 or 2. However, there are some hazards which require a more detailed or specialised assessment to comply with legal requirements, or for which, to make the assessment process easier, Health & Safety Services have designed specific assessment forms and checklist. Those hazards for which a specific assessment form should be used, rather than the general forms contained in this Guide, are listed in Appendix 5. All assessment forms are available via the Health and Safety website. Where specific risk assessment training courses are provided, this is indicated also.

Health & Safety Services provide an annual programme of training, which includes courses providing guidance on how to carry out both general risk assessments and specific assessments for particular types of activities or hazards. A full list of courses available can be found in the current edition of the *Health & Safety Training Prospectus*, available from Health & Safety Services or on the Health and Safety website.

D. FIRE RISK ASSESSMENT REQUIREMENTS

The Fire Precautions (Workplace) Regulations 1997 (amended 1999)) require employers to conduct risk assessments for fire safety as well as for general health and safety hazards. These Regulations place duties on employers and persons in control of premises to comply with requirements relating to:

- means of detection and giving warning in case of fire;
- the provision of means of escape;
- means of fighting fire;
- the training of staff in fire safety;
- the maintenance of building fire safety hardware (alarms, fire doors, etc).

Compliance with these Regulations depends on two related aspects of fire safety:

- **structural fire safety** compartmentalisation, means for fire fighting and detection, the provision of emergency routes and exits, disaster plans for high risk buildings, etc; and
- **use of buildings by occupying department(s)** prevention of fire, safe storage and use of flammable substances, minimising combustible materials, maintenance of unobstructed means of escape, provision of fire routine notices, definition of assembly points, conducting fire drills, keeping training records, co-ordinating maintenance work, managing the presence of disabled persons in the area, etc.

In order to assess structural fire safety risks, the University Fire Safety Adviser undertakes detailed fire risk assessments of buildings and advises Estates Services and design consultants on the fire precautions and standards required. The improvements needed are prioritised and, dependent of the level of risk, available finance, future building plans etc, progressive improvements are planned and implemented.

Assessing risks associated with the day-to-day use of the building, is the responsibility of Heads of Schools and Directorates, and is usually delegated to local managers responsible for each work area. In addition, to encourage the process of on-going fire safety assessment and inspection, *Fire Safety Risk Assessment Checklists* are sent each term from the Health & Safety Office to Area Health & Safety Co-ordinators to complete.

This process is separate from the general risk assessment procedure covered by this Guidance. However, fire safety risks should always form part of your general risk assessments, when applicable.

E: RESEARCH PROJECTS AND POSTGRADUATE STUDENTS

Research work is not and never has been exempt from health and safety legislation. However, it is recognised that as the research environment may give rise to unknown or new risks, while the need for researchers to characterise aspects of a process, may bring them into closer contact with hazards. Therefore it is perhaps more difficult to risk assess research work than routine work activities, nevertheless, the basic principles, as outlined in this guide, must still be applied and risk assessments <u>must</u> be carried out for all research projects. This process should commence at the earliest opportunity to maximise the potential for designing hazards out of the research activity.

In practice these risk assessments will be undertaken by the Supervisor or research students/assistants under the direction of the Supervisor. Once the risk assessment has been carried out, the necessary control measures identified should be implemented. Controls might include technical controls such as fume extraction or electrical insulation, working practices such as prohibition of lone working on some projects or the provision of personal protective equipment. Risk assessments and risk control methods must be considered when writing protocols for project work.

Research project supervisors are expected to see their research workers / students at appropriate intervals dependant upon the degree of risk associated with the research project being undertaken.

There should be formal arrangements in the Department / School to provide a temporary alternate supervisor to cover for planned or unexpected absences of an individual's normal project supervisor.

From time to time, especially when a project is finished, it will be necessary to review how well the health and safety arrangements for that project have worked. This would also be necessary if there are significant changes during the life of the project. If there are changes to the risk assessment then they should be recorded and written into the project protocol.

Some schools use the *Student Supervision Form* (see Health and Safety website 'Forms' page) for undergraduate and postgraduate student projects to assess the supervision needs of students. It should be remembered that this form does **not** constitute a full risk assessment or COSHH assessment, and you may decide to incorporate the assessment of supervision needs into your health and safety risk assessment, rather than complete two separate forms. You will need to indicate on your risk assessment form, what level of student supervision is required during the project, depending on the level of risk associated with the work. The following categories can be used:

Risk category for supervision (choose one):

- A Work must not be started without direct supervision of a named supervisor
- **B** Work must not be started without the advice and approval of a named supervisor
- C Work may proceed as workers are adequately trained and competent in the procedures involved
- D Work may proceed because there are no significant risks and no special supervision is required

F. HOW TO GET STARTED WITH YOUR RISK ASSESSMENTS – initial survey of activities and hazards

- a) You should start by listing all the activities that you are responsible for or that affect the health and safety of your staff or students or others who work in, use, or visit your premises. This should not be a detailed list but broad descriptions of functions.
- b) List all the locations you are responsible for (these will vary according to the type of work and may include temporary sites such as for social events or fieldwork).
- c) It is a good idea to take a walk around to check the accuracy of your lists. It is easy to forget activities that happen outside normal office hours or only infrequently. Talk to supervisors and other employees to check the completeness of your list.
- d) Remember that risk assessments are required for <u>all</u> University work activities, although assessments can be generic (see below) and should therefore include the following:
- Work areas and work activities (including those conducted out of hours)
- Work equipment and use of machinery (including when new equipment is purchased and installed)
- Research projects
- Social events (see University Safety Guide No. 33)
- Field work (see University Safety Guide No. 32)
- Emergency situations which may arise such as fires, explosions, spillage and accidental contamination.

e) Decide which assessments can be generic in nature and which need to be more specific.

Are generic or specific risk assessments needed?

It is not necessary to carry out an assessment for each and every work activity or for every worker. If risks are of a similar nature in a number of areas within the department or school, or the work activities of a group of staff are similar, then generic risk assessments can be carried out.

For example, generic assessments of general office-based, workshop-based or laboratory-based health and safety risks can be undertaken. However, specific assessments will be needed for activities not covered by these generic assessments, or sometimes for individuals who are particularly at risk, such as staff or students with disabilities or expectant mothers. Similarly a generic assessment can be topic or hazard based. For example, an assessment may look at manual handling activities throughout a section or for a particular group of staff, or the storage of highly flammable liquids, throughout your school. An example of a generic office-based risk assessment is included as Appendix 6; this is based on the Health & Safety Services Office. An example of a specific risk assessment, for Display screen equipment (DSE) work, is included as Appendix 7.

- f) Divide your list into manageable chunks and decide who is the best person to carry out each risk assessment. You may, for example, decide that a supervisor has a more detailed understanding of a particular function. Each risk assessment should take no more that half a day to complete otherwise it should be further subdivided.
- g) Do not split the task by asking different people to look at different hazards within the same activity, as the inter-relationship of the hazards and possible control measures is important.
- h) Prioritise the risk assessments you have decided on and set deadlines for their completion. Try to think forward and decide whom you will need to consult for information and who may be useful to assist you with the assessments.

G. RECORDING RISK ASSESSMENTS – ASSESSMENT FORMS

It is important that you have a means of easily and logically recording the relevant information from your risk assessment and that the format used meets the requirements of the law. We are legally obliged to record the 'significant findings' of each assessment. While the legislation does not prescribe <u>how</u> risk assessments should be recorded, there are specific requirements about <u>what</u> is recorded. You should use one of the forms designed by Health & Safety Services included in this guide. If you wish to use a different form, you should discuss this with staff in Health & Safety Services, who will advise you whether your form is a suitable alternative.

Records of risk assessments can be electronic, but they must be easily retrievable for use by managers and auditors and external bodies, when required, such as the Health and Safety Executive or Insurance assessors.

Two Risk Assessment Forms have been produced in recognition that some activities are more complex than others and one form seldom suits all situations. The two forms RA1 and RA2 are attached as Appendix 1 and 2 and are also available on the Health & Safety Services website (see page 12 for website address).

(i) Area Risk Assessment Form (RA1)

You can use this form for fairly simple assessments where the amount of detail required is limited but the activity or area gives rise to a number of different, but fairly straightforward hazards. For example, the form could be used for generic risk assessments of offices, general laboratories (not for high risk laboratory work), workshops and communal areas. This form enables you to assess a number of hazards using the same form. An example of a generic office-based risk assessment using Form RA1 is included as Appendix 6. This assessment is based on the Health & Safety Services Office.

(ii) **Project / Activity Risk Assessment Form (RA2)**

This is a more comprehensive form most suited to more complex or higher risk tasks or projects when you wish to consider an activity or piece of equipment in detail. Each section of the form RA2 corresponds to one of the steps in these guidelines, while RA1 follows the same principles, but requires less information and incorporates a hazard checklist. An example of a specific risk assessment for DSE work is included as Appendix 7 (the Further Action sections 8 and 9 have not been completed). You will see that the generic risk assessment example (Appendix 6) covers briefly a number of office hazards, including display screen equipment (DSE) work, whereas the example in Appendix 7, covers DSE risks in much greater detail. The latter approach would be suitable for offices where DSE work is a significant part of the work or where a detailed investigation of a problem area is called for.

(iii) Register of Risk Assessments

To keep a record of what activities, projects or work areas have been assessed, when these need to be reviewed, and to facilitate auditing - a *Register of Risk Assessments* (see Appendix 3) should be completed for each School, Hall and Directorate, and a copy should be retained by the Area Health & Safety Co-ordinator. A copy of the Register should also be sent to the Head of School / Directorate and to Health & Safety Services. You do not need to send copies of individual risk assessments to Health & Safety Services, but we are happy to give feed back on any you have produced.

Records of risk assessments should be kept for at least 3 years. This is so that, in the unfortunate event of a civil claim being made against the University, we will be in a position to demonstrate, retrospectively, that risks were properly assessed. Note that specific legislation may require the records to be kept for much longer, for example genetic modification risk assessments must be kept for at least 10 years after the activity has ceased.

H. THE RISK ASSESSMENT PROCESS: STEP BY STEP APPROACH

Once you have carried out your initial hazard survey and decided on <u>what</u> needs to be assessed, <u>who</u> is going to do it, <u>how</u> you will record assessments, and you have ensured that the people involved in the process have received sufficient instruction and training in risk assessment, then you are ready to begin. The various practical steps required to conduct a risk assessment are described in the following text. Each step corresponds to a section of Risk Assessment Form RA2.

STEP 1: Choose an area, activity, project, or piece of equipment to concentrate on. You will have already decided what risk can be covered by generic assessment and where specific assessments will be needed instead.

STEP 2: Identify the significant hazards associated with these.

You can use the Hazard Checklist included in this guide (Appendix 4), or the list provided in Risk Assessment Form RA1, to help you identify all the relevant hazards.

STEP 3: Identify relevant standards.

Find out if there are any health and safety policies, best practice guidance, standards or minimum requirements relevant to the activity or hazard you are considering. Managers are expected to know about the hazards in their workplaces, and the main legal requirements relating to their work (even if only in outline). If you do not know you must find out. In form RA2 you are provided with space to record this, but not in form RA1.

Relevant sources of health and safety information include:

- University health and safety policies or guidance check the University Health & Safety website or talk to your Area Health & Safety Co-ordinator (see also Appendix 5)
- Legislation and supporting Approved Codes of Practice which give practical guidance and include basic minimum requirements (produced by the Health & Safety Commission).
- Guidance published by the Health and Safety Executive (HSE) see their website <u>www.hse.gov.uk</u>
- Relevant British and European Standards
- Product information from suppliers and manufacturers
- Industry, trade association or trade union health and safety guidance
- Do not forget to consult those actually doing the work, they are often the experts!

STEP 4: Decide who is at risk and might be harmed.

In addition to staff and students actually involved with the activity, you should also consider risks to cleaners, contractors, maintenance workers and agency workers who may not be in the workplace all of the time and may not be familiar with the risks. Also do not forget visitors (including children) or other organisations you share your workplace with, if there is a chance they could be harmed by your activities. Also consider workers who might be at particular risk like young workers, trainees, new and expectant mothers or people with reduced mobility or disabilities.

STEP 5: Consider how people might be harmed from these hazards.

Consider what kind of injury or ill-health people might suffer if exposed to the hazards and how severe the outcome is likely to be. In form RA2 you are provided with space to record this, but not in the simplified form RA1. You can use Table 2 on the next page to help you categorise risk according to the severity of the outcome. Try to avoid always choosing the worst case scenario. For example, if someone tripped on a trailing cable, they could, in theory fall and bang their head, experience a blood clot and end up dying, so you might be tempted to record the severity (Table 2) as 'fatal'. Indeed you may conclude that any injury could in theory be fatal. Taking this approach

will skew your risk assessments, and it will be very difficult to prioritise any action needed, if everything ends up as a 'high risk'. Instead, a more realistic approach is needed. Most slips and trips lead to minor injuries, but sprains and strains leading to time off work are not uncommon, so you should choose a severity of either 'minor' or 'serious', depending on the work environment.

STEP 6: List what risk controls are currently in place to reduce the risks identified.

In other words what steps do you currently take to protect the health and safety of the groups of people identified, from the hazards under consideration?

Risk controls might be:

- (i) *Physical* such as machine guards, enclosures, interlocks, restricted access or local exhaust ventilation;
- (ii) *Administrative* such as established safe working procedures, emergency procedures, information, supervision and training, or
- (iii) *Personal protective equipment* which is provided and worn. Remember to include any relevant preventive maintenance programmes and regular inspections, such as those carried out by insurance company engineers, as these too are risk control measures.

You also should consider if these risk controls are adequate, compare them with the relevant legal requirements, standards or guidelines, as identified in Step 3. It is important to find out if the controls put in place are actually used in practice. Also think about what is done to check that these controls are in good working order, is any preventive maintenance or servicing carried out, or any visual checks and inspections?

STEP 7: Assessing the level of remaining (or residual) risk.

It is essential to now consider whether, given the existing measures that are taken or risk controls that are already in place, what the remaining level of risk actually is. This is where knowing how your current arrangements compare with best practice and legislative requirements is important - how else do you know whether you are doing all you should be doing to reduce health and safety risks?

On Risk assessment form RA1, you are provided with columns to indicate whether you have assessed the risk as 'low', 'medium' or 'high'. Making this kind of judgement can be very subjective and results can vary considerably from one assessor to another. More objective assessments will be produced if the approach taken to evaluating risk considers the factors that contribute to increased risk in a consistent way, these are:

- (i) The **severity** of the harm that exposure to the hazard could cause (S)
- (ii) The **probability** of exposure to the hazard (P)

To help you evaluate the level of risk you can do a very simple calculation to produce a risk score which corresponds to a risk level of *low, medium* or *high*. Simply decide the level of severity (S) (Table 2. over page) and a level of probability (P) (Table 3. over page) for the hazard in question and multiply the scores together as described. On risk assessment form RA2 space is provided to record these scores (and the scores are given in brackets for each category selected). For more

simple or generic risk assessments recorded on Risk Assessment form RA1 – you are just invited to select from the categories 'low', 'medium' or 'high', but you can use the scoring system described above, if you wish to take a more objective approach.

Table 2: Risk Severity (S	- The severity of any	resulting injury or ill-health.
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Category	Example	Score
MINOR	Superficial injuries - cuts, bruises, mild skin irritation, mild aches and pains – requiring first aid only. Minor property damage.	1
SERIOUS	More serious injuries or ill-health, requiring time off work or study or a hospital visit, e.g. burns, sprains, strains and short-term musculoskeletal disorders, cuts requiring stitches, back injuries, fractures to fingers or toes. More serious property damage.	2
MAJOR	Broken limbs, amputations, long-term health problems resulting from work, or acute illness requiring medical treatment, loss of consciousness, serious electric shock, loss of sight. Major property damage.	3
FATAL	Injury or ill-health which leads to death either at the time or soon after the incident, or eventually, as in the case of certain occupational diseases, such as asbestos-related cancers.	4

Table 3. Risk Probability (P) - the likelihood of the hazard causing harm.

Category	Example (for guidance only - some or all may apply for each category)	Score
VERY	Good control measures are in place. Controls do not rely on a person using	1
UNLIKELY	them (i.e. personal compliance). Controls are very unlikely to break down.	
	People are very rarely in this area or very rarely engage in this activity.	
UNLIKELY	Reasonable control measures are in place but they do rely on a person using	2
	them (some room for human error). Controls unlikely to breakdown.	
	People are not often in this area / do not often engage in this activity / this	
	situation is unlikely	
POSSIBLE	Inadequate controls are in place, or likely to breakdown if not maintained.	3
	Controls rely on personal compliance. People are sometimes in this area or	
	sometimes engage in this activity / this situation sometimes arises	
LIKELY	Poor or no controls in place. Heavy reliance on personal compliance (lots of	4
	room for human error). People are often in this area / engage in this activity	
	on a regular basis / this situation often arises.	

The scores can be represented in a matrix, shown as in Table 4 below. Risk scores correspond to a risk level – high, medium, low etc.

Table 4. Risk Score Matrix

			SEV	ERITY OF	оитсом	E (S)		
DICK			Minor	Serious	Major	Fatal	<u>Risk Le</u>	evel
SCORE = S X P	P R	Very Unlikely	1	2	3	4	Low	
	В						Medium	
	AB	Unlikely	2	4	6	8	High	
							Very High	



What about the number of people at risk?

Another risk factor that should be considered when evaluating the level of risk is the actual number of people at risk at any one time (sometimes known as *the extent of risk*). In general, <u>for risks at a similar level</u>, a higher priority should be given to actions which reduce risks affecting a greater number of people.

Why use a quantitative (numerical) system of categorising risks?

Expressing risk levels as scores can very useful when making decisions about prioritising action and allocating resources. Scores derived using a common method will enable comparisons to be made between one activity or part of the organisation, and another.

STEPS 8 & 9: Deciding what further action is required - now and in the future

What if you discover that the existing measures in place for controlling risks are not adequate to protect the health and safety of staff, students or others? This may be either because controls do not meet the required standard, are not working properly, are not being used, or are deteriorating due to lack of maintenance and checking. In this case, you must establish what further action is required to reduce risks, so far as is reasonably practicable (see definition on page 2), and by when this should be achieved.

If action can be taken immediately to improve health and safety standards, such as replacing machine guards or clearing obstructed gangways or fire exits, then this should be carried out without delay, and recorded on the risk assessment form.

When considering what further control measures you should adopt to reduce or manage health and safety risks, you should follow the *Hierarchy of Risk Controls*. Priority should be given to collective protective measures, over individual protective measures. Controls such as personal protection should only be a last resort, if there is no other way of reducing risk at source. In practice a combination of these risk controls is often required.

Hierarchy of Risk Controls

(Priority should be given to the controls at the top of this list)

- Prevent the hazard from arising, so that risk can be avoided *(eliminate or avoid the hazard)*
- Find a less hazardous alternative (substitute the hazard)
- Reduce the risk at source to protect all (e.g. improve workplace layout or design or introduce engineering solutions like machine guards or fume / dust extraction)
- Introduce administrative controls such as written safe systems of work, information, instruction and training on risk reduction
- Personal protection e.g. protective clothing *(last resort as only individuals are protected)*

It may be necessary to clarify the safe systems of work you introduce by issuing them to staff or students as written procedures, guidelines or policies. Remember to ensure people receive adequate training in any new procedures.

Action plans – implementing risk controls

It is strongly recommended that you draw up a health and safety action plan to ensure that improvements needed are prioritised according to the level or risk identified. Remember to include realistic time scales in your action plan and identify who will be responsible for checking that the objectives of the plan have been met. It is up to you to decide on appropriate time scales for action, but some typical timescales, according to risk are given as a guide in Table 5.

SCORE	RISK LEVEL	TYPICAL TIME SCALES FOR ACTION REQUIRED
1	Insignificant	No further action needed
2 – 3	Low	Action within 12 months if improvements are reasonably practicable
4 – 6	Medium	Action within 6 months based on reasonable practicability
8 – 9	High	Action within 1 month to reduce risk (immediate action may be needed in some circumstances)
12 – 16	Very high	Immediate action required – work should stop / not commence until risk has been reduced to acceptable levels

Table 5: Scores and Typical Action Plan Time Scales

STEP 10: Reviewing risk assessments

Risk assessments should be reviewed regularly and modified if necessary. They should not be a once-and-for-all activity, but equally, they do not have to be re-written every year. As the nature of work changes and our appreciation of hazards and risks develops over time, so risk assessments should evolve accordingly.

Assessments should be reviewed:

- If significant changes are made to existing workplaces, work activities, projects or equipment, such that the original assessments are no longer valid;
- If new or temporary members of staff are employed who may be more at risk due to inexperience, age or physical or mental health conditions and disabilities;
- If female staff announce that they are pregnant, and their work could give rise to a health risk to the mother or unborn child;
- If new legislation / guidance / codes of practice or national standards are introduced;
- Following accidents or near misses which highlight deficiencies in existing risk control measures or previously unforeseen hazards;
- AND on a regular basis every 12 months is recommended (although every 2 years would be acceptable for low risk administrative departments).

I. INFORMING OTHERS OF RISK ASSESSMENT FINDINGS

All employees and students exposed to risks to their health and safety must be informed, as part of their induction, about these risks and the control measures introduced to manage and reduce risk. This is so that people understand the reasons behind the safe working procedures they are expected to follow and the personal protective equipment they have to wear etc. An understanding and acceptance of health and safety procedures by staff and students is more likely to ensure their cooperation.

The information provided must be meaningful and easy to comprehend. Staff or students can be given copies of individual assessments, and this would be particularly appropriate for hazardous activities, such as work with machinery or for research projects, where a very clear understanding of the risks and control measures employed is essential. Alternatively, the findings of assessments can be incorporated into local written health and safety procedures, Area Health & Safety Codes or Policies, Health and Safety Manuals etc. as appropriate. It is a good idea to get individuals to sign a record to confirm they have received and understood the information provided to them.

'Health and safety risk assessment' should be a standing item for discussion at staff meetings and Area Health and Safety Committees meetings.

J. MONITORING HEALTH AND SAFETY PERFORMANCE

It is important to ensure that once risk control measures are introduced; there is a system in place to regularly check that risks are still being adequately managed in the workplace on a day-to day basis, and that standards are not left to deteriorate over time.

It is therefore essential that health and safety performance is monitored by the Head of School / Directorate. One form of *proactive* monitoring, which is required by the University, is for each area to undertake regular workplace health and safety inspections. The frequency of such

inspections depends on the risk, but an inspection at least every 6 months is recommended in low risk office-based environments, while every term would be a more appropriate frequency for higher risk environments like laboratories and workshops.

Ideally, these inspections should be undertaken using an inspection checklist. As workplace inspections should provide a check that the controls listed in your risk assessments are still in place, still effective and still relevant - the findings of your risk assessment (i.e. the 'controls' listed) should be used to develop your inspection checklist. For example, if one of your risk controls is the regular inspection of portable electrical appliances, this should be listed as an item to check during your workplace inspection.

In addition to *proactive* monitoring, *reactive* monitoring of health and safety performance, in the form of reporting and investigation of accidents and incidents, including 'near misses', should also be undertaken within each school or directorate. The results of investigations may point to inadequate initial assessment of risk, or poorly managed or absent risk controls. This should prompt a review of the relevant risk assessment.

Further guidance on health and safety inspection and health and safety performance monitoring in general is available from Health & Safety Services.

K. FURTHER INFORMATION & GUIDANCE

1. Further advice and guidance is available from Health & Safety Services staff or from the Health & Safety Services website which contains University health and safety guidance and policies, risk assessment forms and examples of risk assessments.

Health & Safety Services Facilities Management Directorate, Room 110 Physics Building, Whiteknights Tel: 0118 931 8888 Email: safety@reading.ac.uk

Website : www.extra.reading.ac.uk/safety/

- 2. Risk assessment training courses are provided by Health & Safety Services see the Health and Safety website or current edition of the Health and Safety Training Prospectus for details (the prospectus is issued annually to Area Health & Safety Co-ordinators).
- 3. The Health and Safety Executive (HSE) website <u>www.hse.gov.uk.</u> contains a lot of useful general and topic-specific health and safety guidance, much of which can be downloaded free. HSE priced publications are available from HSE Books (Tel: 01787 881165 or visit <u>www.hsebooks.com</u>), or from bookshops such as Waterstones on campus. Health & Safety Services also keep a library of reference material which can be borrowed. A selection of health and safety videos is also available.
- 4. Management of Health and Safety at Work. Management of Health and Safety at Work Regulations 1999. Approved Code of Practice. HSE Books L21. ISBN 07176 0412 8 (£5.00).

AREA HEALTH AND SAFETY RISK ASSESSMENT FORM (RA1)

Assessment Reference No.	Area or
Assessment date	activity
Persons who may be affected by	assesseu:
the activity (i.e. are at risk)	

SECTION 1: Identify Hazards - Consider the activity or work area and identify if any of the hazards listed below are significant (tick the boxes that apply).

1.	Fall of person (from work at height)	6.	Lighting levels	11.	Use of portable tools / equipment	16.	Vehicles / driving at work	21.	Hazardous fumes, chemicals, dust	26.	Occupational stress
2.	Fall of objects	7.	Heating & ventilation	12.	Fixed machinery or lifting equipment	17.	Outdoor work / extreme weather	22.	Hazardous biological agent	27.	Violence to staff / verbal assault
3.	Slips, Trips & Housekeeping	8.	Layout, storage, space, obstructions	13.	Pressure vessels	18.	Fieldtrips / field work	23.	Confined space / asphyxiation risk	28.	Work with animals
4.	Manual handling operations	9.	Welfare facilities	14.	Noise or Vibration	19.	Radiation sources	24.	Condition of Buildings & glazing	29.	Lone working / work out of hours
5.	Display screen equipment	10.	Electrical Equipment	15.	Fire hazards & flammable material	20.	Work with lasers	25.	Food preparation	30.	Other(s) - specify

SECTION 2: Risk Controls - For each hazard identified in Section 1, complete Section 2. For more complex activities or projects you are advised to use Form RA2.

Hazard	Hazard Description	Existing controls to reduce risk	Risk	Level (tie	k one)	Further action needed to reduce risks			
No.			High	Med	Low	(provide timescales and init	tials of person responsible)		
NT				<u> </u>					
Name of Assessor(s)							Number of continuation		
Kevlew	uate						sheets used.		

Healt	h and Safety Risk A	Assessments – continuation sheet		As	ssessm	ent R	eference No		
SECTI	ON 2 continued: Ris	k Controls		Co	ontinu				
Hazard	Hazard Description	Existing controls to reduce risk]	Risk L	evel (tic	k one)	Further action needed	l to red	uce risks
No.	1]	High	Med	Low	(provide timescales and initi	als of per	son responsible)
Name o	f Assessor(s)		SIG	NED			<u> </u>	Numbe	er of continuation
Review date								sheets	used:

AREA HEALTH AND SAFETY RISK ASSESSMENT FORM (RA1)

Ref. No.

School / Dept /	
Unit	
	A: Identifying workplace hazards and existing controls
1. Brief summary	
of work activity or project assessed	
project assessed	
2. List significant	
hazards	
checklist in SG4 -	
Guide to H&S Risk	
Assessment)	
3 Relevant	
University or local	
guidelines or	
standards	
1 List who might	
be exposed to the	
hazards (e.g. staff,	
students, visitors,	
at risk)	
5. How might they be harmed ? (type	
of injury or health	
problem that might	
result)	
6. List control measures in place	
to reduce risks	
Assess whether	
these controls are	
adequate, actually	
used in practice	
checked, where	
appropriate.	

B: Assessing the level of risk and further action needed								
7.1 How severe is any injury or health effect likely to be?	Tick one box (S =score given in brackets)	Minor (1)	Serious (2)	Major (3)	Fatal (4)			
7.2. How likely is exposure to the hazard?	Tick one box (P =score given in brackets)	Very unlikely (1)	Unlikely (2)	Possible (3)	Likely (4)			
7.3. Calculate the risk score by multiplying the 2 scores in Q7.1 & 7.2	Risk Score (S x P) =	Low (1–3)	Medium (4–6)	High (8-9)	Very High (12–16)			

8. Immediate action to be taken to risk to health	o make the situation safe / reduce	Action to be taken by whom?	Target Date
9. Further action or additional co as reasonably practicable	ntrols needed to reduce risk as low	Action to be taken by whom?	Target Date
Name of Assessor (please print)			
Signature of Assessor		Date:	
Signature of Head of Department / Section		Date:	
10. Date for Review (maximum 12 months from d	Date: late of assessment)		

REGISTER OF RISK ASSESSMENTS COMPLETED

SCHOOL /	SECTION /
DIRECTORATE	DEPARTMENT

SIGNED: Head of S	chool / Directorate	NAME: (please print)		DATE:	

A copy of this Register should be maintained by the Head of School / Directorate and the Area Health & Safety Co-ordinator. A copy should also be sent to Health & Safety Services.

HAZARD CHECKLIST APPENDIX 4

CATEGORY	EXAMPLES OF TYPE OF HARM
	(excludes property damage)
Tripping and slipping	Injury
Work at heights	Fall of persons or objects
Obstructions	Striking against, tripping over, blocking emergency escape routes
Stacking/Storage	Falling materials, back injuries, falls during retrieval
Temperature	Heat stress, sunburn, melanoma, hypothermia
Ventilation & humidity	'Sick Building Syndrome', nausea, tiredness, dry or itchy eyes
Manual Handling	Back injury, musculoskeletal disorders, hernia, other injuries
Work with Display screen equipment	Musculoskeletal disorders, eyestrain or soreness, headaches and blurred
(DSE)	vision, fatigue, occupational stress
Repetitive movements	Musculoskeletal disorders
Fire and explosion	Burns, health effects of smoke inhalation, exposure to hazardous substances
	and toxic fumes, psychological trauma
Hazardous chemicals substances	Acute and chronic health effects, allergies (sensitisation)
Use, storage & disposal*	
Biological agents*	Human and zoonotic diseases (infections passed via animals to humans),
	allergies (sensitisation), blood-borne viruses
Genetically Modified Organisms	
Flammable substances*	Fire explosion, thermal runaway
Cryogenic liquids*	Frostbite, asphyxiation
Occupational stress	Anxiety, depression or other mental health problems. Stress- related
	physical symptoms, behaviour or illnesses
Attack by people or verbal assault	Injury, anxiety and stress, post traumatic stress disorder
Work with animals	Injuries - bite, sting, crushing, kicking etc. Ill health effects – zoonotic
	diseases, allergies
Mechanical (machinery)	Trapping by, impact or contact with moving parts (cutting, friction or
	abrasion), entanglement in rotating parts, injury from ejection
Vehicles & driving	Road traffic accidents – injuries to driver, passengers or third parties,
Electrical	Shoel/burn/fire/explosion_ignition_source
Larga arowds	Crushing persons trapped in the event of emergency heat exhaustion fire
Handling food	Food poisoning, cross contamination
Contractors	Injuries and ill health to employees caused by contractor's work or to
Contractors	contractors' employees due to work in host premises
Work out-of-hours / lone working	Various depending on work, including inability to summon help in an
	emergency, possibly increased vulnerability to assault
Work outdoors	Sunburn, skin cancer, hypothermia, heat stroke, bites and stings, contact
	with poisonous plants, tetanus from soil, road traffic accidents
Field trips and field work	Various depending on activity and location – including tropical diseases,
	risk of terrorist attack and hijacking in some areas
Work in public areas	Injuries and ill health to public
Confined spaces	Asphyxiation, explosion, poisoning
Work over or near liquids, grain, etc	Fall into substances, drowning poisoning, suffocation, etc.
Pressure & stored energy	Release of energy – explosion, flying / falling materials
Thermal	Burns/fires/scalds/frostbite
Noise	Hearing loss, tinnitus, inability to hear fire alarm etc.
Vibration	Hand-Arm Vibration Syndrome, whole body effects
Ionising radiation	Burns, cancer
Non ionising radiation	Burns, possibly other health effects (not proven) e.g. mobile phones
Lasers	Beam hazards - burns, tissue damage, eye damage
Linkt (Alex goog lighting and in such	Non- beam hazards e.g. electricity, hazardous substances, fire
Light (Also poor lighting can increase	Eye strain, arc eye and cataracts
risk of contact with other nazards)	

NB: This list is not designed to be exhaustive; there may be other hazards in your workplace not listed here and other types of harm associated with these hazards.

Specific risk assessment requirements, forms & training

Hazard or type of work	University Guidance	Specific Risk Assessment Form available?	Training course provided?
Work with Display screen equipment	Visual display units (SG13)	YES - DSE Workstation Assessment Form in SG13	YES
Manual handling and lifting	In preparation – contact Health & Safety Services	YES - Manual Handling Assessment Forms (see website)	YES
Work with hazardous substances	In preparation – contact Health & Safety Services	YES - COSHH Assessment Form (see website)	YES
Work with biological agents	Control of biological hazards (SG14)	YES - COSHH Assessment Form (see website)	Included in COSHH training
Personal protective equipment (PPE)	Personal protective equipment (SG 27)	Separate assessment no longer required – PPE should be considered in general and COSHH assessments	Included in COSHH training
Fire risk assessment	Fire safety (SG34) Fire Drills (SG5)	YES - Fire Risk Assessment checklists issued by Fire Safety Adviser	Contact Fire Safety Adviser
Emergency evacuation of people with disabilities	In preparation – contact Health & Safety Services	In preparation	Contact Fire Safety Adviser
Dangerous substances	Dangerous Substances and Explosive Atmospheres Regulations, DSEAR. (SG24)	NO – include in general or COSHH assessments	Contact Fire Safety Adviser
New and expectant mothers	Health and Safety Guidance Notes on Maternity Issues (SN27)	YES - See guidance SN27	Contact Health and Safety Adviser
Field work	Fieldwork (SG32)	Examples available - see guidance SG32	YES
Students placements	Student placements (SG31)	Checklist available – see guidance SG31	YES
Social Events	Social events (SG33)	YES - See guidance SG33	YES
Food Safety & Hygiene	Food Safety & Hygiene (SG29)	YES - See guidance SG29	YES
Vibration	Health & Safety Guidance Note on Hand Arm Vibration (SN23)	NO – use general risk assessments forms	Contact Health and Safety Adviser
Noise	In preparation – contact Health & Safety Services	NO – use general risk assessments forms	Contact Health and Safety Adviser
Ionising and non-ionising Radiation	Safety Guides 16 – 22 (radiation, lasers, UV)	NO – use general risk assessments forms	YES
Work with Genetically Modified Organisms	Genetic modification work (SG15)	YES - See guidance SG15 and H&S website	YES

EXAMPLE OF GENERIC OFFICE RISK ASSESSMENT (Form RA1)

Assessment Reference No.	HSS/OFFICE/04	Area or	Health & Safety Services - Offices
Assessment date	11 March 2004	activity	Physics Building, 1 st Floor
Persons who may be affected by the activity (i.e. are at risk)	Staff, visitors, contractors	assesseu.	

SECTION 1: Identify Hazards - Consider the activity or work area and identify if any of the hazards listed below are significant (tick the boxes that apply).

1.	Fall of person (from work at height)	✓	6.	Lighting levels	✓	11.	Use of portable tools / equipment		16.	Vehicles / driving at work	✓	21.	Hazardous fumes, chemicals, dust		26.	Occupational stress	\checkmark
2.	Fall of objects	✓	7.	Heating & ventilation	~	12.	Fixed machinery or lifting equipment	<	17.	Outdoor work / extreme weather		22.	Hazardous biological agent		27.	Violence to staff / verbal assault	✓
3.	Slips, Trips & Housekeeping	✓	8.	Layout, storage, space, obstructions	✓	13.	Pressure vessels		18.	Fieldtrips / field work		23.	Confined space / asphyxiation risk		28.	Work with animals	
4.	Manual handling operations	✓	9.	Welfare facilities	✓	14.	Noise or Vibration		19.	Radiation sources	<	24.	Condition of Buildings & glazing	~	29.	Lone working / work out of hours	✓
5.	Display screen equipment	✓	10.	Electrical Equipment	✓	15.	Fire hazards & flammable material	✓	20.	Work with lasers		25.	Food preparation		30.	Other(s) – specify Site visits	✓

SECTION 2: Risk Controls - For each hazard identified in Section 1, complete Section 2. For more complex activities or projects you are advised to use Form RA2.

Hazard	Hazard Description	Existing controls to reduce risk	Risk I	Level (tic	k one)	Further action needed to reduce risks
No.			High	Med	Low	(provide timescales and initials of person responsible)
5	Work with Display Screen Equipment (DSE) Prolonged poor seated posture at DSE workstation ⇒ musculoskeletal problems. Repetitive movements (e.g. use of keyboard and mouse). Eye strain, fatigue	 Staff who are 'DSE users' are identified DSE assessor appointed and trained Workstation assessments carried out for DSE Users, using University checklist in Safety Guide 13 - reviewed annually Free eyesight tests offered to all DSE Users Ergonomic office chairs and desks, foot rests, wrist rests etc. provided Good office organisation and layout to allow sufficient working space around each desk Adequate storage space provided Provision of adequate lighting and window blinds 			*	 Ensure all Users have been provided with guidelines and training on correct posture and DSE workstation adjustment (DSE Users training course, University DSE leaflet) Encourage staff to take regular breaks/change activities /take a lunch break Encourage staff to report any DSE related health symptoms (and seek advice from Occupational Health where appropriate) Discourage prolonged use of laptop PCs Conduct regular workplace health and safety inspections

Health and Safety Risk Assessments - continuation sheet

Assessment Reference No	HSS/OFFICE/04					
Continuation sheet number:	1					

SECTION 2 continued: Risk Controls

Hazard	Hazard Description	Existing controls to reduce risk	Risk Level (tick one)			Further action needed to reduce risks
No.			High	Med	Low	(provide timescales and initials of person responsible for
1, 2	Falling materials from insecure stacking or storage Fall of persons during storage or retrieval of equipment and materials	 Adequate amount of storage space /shelving is provided Safe storage arrangements ensure that objects are stable and easily accessible Kick stool provided to reach high shelves in stationary room Filing cabinets - either have safety feature (only one draw can be opened at a time) or warning notice affixed 			*	 Encourage staff to use Kick stool, not stand on chairs or boxes Conduct regular workplace health and safety inspections - check storage arrangements Minimise unstable storage at high level (store light objects only) Remove archive storage from Plant Room
3, 8	Slips, trips & housekeeping hazards Spillages, slippery or sloping surfaces Uneven surfaces / changes in floor level Damaged or loose floor surfaces Trailing cables, obstructions such as boxes, bags, files etc. Striking against objects	 All floor surfaces are in good condition Good housekeeping standards Gangways are free of obstructions/protrusions Storage along fire escape routes /near fire exits is prohibited Provision of hangers for bags and coats Liquid spillages are cleared up promptly Cabinet doors & drawers are kept shut when not in use Good office organisation and layout to allow sufficient working space around each desk and provide gangways that are wide enough for ease of movement (e.g. at least 1 metre wide) Provision of adequate lighting Guidelines provided to staff to raise awareness (Area H&S Policy) 			•	 Ensure the safe routing of cables -use cable ties / covers to eliminate tripping hazards All damaged flooring to be reported and repaired promptly Carry out regular workplace health and safety inspections See also Further Action recorded under 'Fire' Encourage staff to keep the area around and under their desks clear ('clear desk' policy) Encourage regular clearouts of waste, and archiving of paperwork Arrange regular 'Housekeeping days'. First one organised for 2nd April 2004.

APPENDIX 6

Health and Safety Risk Assessments – continuation sheet

Assessment Reference No	HSS/OFFICE/04		
Continuation sheet number:	2		

SECTION 2 continued: Risk Controls

Hazard	Hazard Description	Existing controls to reduce risk	Risk Level (tick one)		k one)	Further action needed to reduce risks		
No.			High	Med	Low	(provide timescales and initials of person responsible for action)		
4	Manual Handling Musculoskeletal problems from lifting & carrying - e.g. collecting deliveries of HSE leaflets & stationary; carrying training handouts & IT equipment, tea urn & display boards etc. Possible back injuries, other muscle strains & sprains, hernias, cuts, scalding from hot water.	 Manual handling leaflet provided to staff re. safe lifting techniques Two people / team lifting encouraged for heavy/awkward objects Portering Service available for moving large items or for office moves Trolleys and sack trucks available (located in Physics Loading Bay Area). Staff use the lift whenever possible when moving heavy loads. Staff drive to training venue if possible, when they need to carry lots of equipment & handouts Safe storage arrangements (e.g. heavier items stored at waist height to facilitate safe lifting, weight of objects stored at low or high level minimised. Purchase of insulated hot water urn with handle 			*	 Encourage staff to seek help when lifting heavy or awkward loads. Minimise carrying distances where possible (e.g. arrange delivery of supplies to office) Prior to lifting, ensure route is free of obstructions, floor surfaces are in good condition etc. Ensure easy access and manoeuvrability during manual handling Ensure sufficient rest and recovery time is taken during repeated lifting Identify vulnerable staff (e.g. pregnant, those with health problems) - assess capability to lift, prohibit from certain tasks if necessary; seek advice from Occupational Health Service when appropriate. 		

6, 7	Lighting, heating & ventilation	 Reasonable fluorescent strip lighting provided. Additional angle-poise lamps available also. Blinds provided at windows. Can be cold in winter/ too hot in summer, particularly Room 111A. Additional portable heaters provided in all rooms. Windows can be opened to provide ventilation. 		~	•	Secretary to put on p 111a on cold Monday r arrives. Window in Room 112 i monitor condition.	portable heater in room mornings, when she first is difficult to open,
Health and Safety Risk Assessments – continuation sheet		As	Assessment Reference No		rence No	HSS/OFFICE/04	
			Co	ontinuati	ion she	eet number:	3

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SECTION 2 continued: Risk Controls

Hazard	Hazard Description	Existing controls to reduce risk	Risk Level (tick one)		k one)	Further action needed to reduce risks
No.			High	Med	Low	(provide timescales and initials of person responsible for action)
10	Electrical equipment Office, kitchen & portable electrical equipment. Electric shock or burns from contact with live parts due to damaged cables and casing Faults or overloading of sockets causing overheating and fire	 Electrical installation meets BS and is maintained in a safe condition as per IEE Wiring Regulations. All equipment purchased meets EC standards Sufficient socket outlets are provided in each office. Portable appliance testing is carried out by an approved contractor as per University Guidance Safety Guide no.s 11 & 12 Appliances are appropriately labelled to denote last and next test date (last test October 2003). Staff do not attempt any electrical repairs themselves - only competent and authorised persons to work on electrical systems. 				 Instruct staff not to use equipment which has not been tested. Staff should be encouraged to visually check equipment before use. If they are in any doubt about the safety of equipment, it must not be used and must be reported to Head of Health & Safety Services. Ensure sockets are not overloaded, include item in regular health and safety inspection. Ensure cabling is not subjected to damage by furniture (e.g. desk legs, chairs and cabinets) or pedestrians. All cables that must traverse traffic routes should be protected by cable covers if they cannot be safely re-routed or tied back out of the way.

9	Welfare facilities	 Tea & coffee making facilities provided in room 109, but no running water supply. Adequate toilets & washing facilities nearby. First aider in the team (KO), First Aid kit kept in room 112, contents maintained by KO. Further first aiders provided in Physics & IT Services. First Aid Room, Physics Rm 	✓	 With agreement, staff can use Maths Kitchen at end of corridor for water supply (to fill up 3 litre water container) and for washing cups. Maintain supplies of disposable cups, to use for visitors. Put list of other local first aiders on staff notice board.
24	Condition of buildings, glazing	 Good structural condition, no low level glazing Asbestos survey of building carried out, results on WREN database 	•	 Window in Room 112 is difficult to open, monitor condition. Loose ceiling tile, Room 111, not hazardous, monitor.

Health and Safety Risk Assessments – continuation sheet

Assessment Reference No	HSS/OFFICE/04		
Continuation sheet number:	4		

SECTION 2 continued: Risk Controls

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Hazard	Hazard Description	Existing controls to reduce risk	Risk l	Level (tio	ck one)	Further action needed to reduce risks
No.	-		High	Med	Low	(provide timescales and initials of person responsible for action)
12	Machinery (moving parts, blades etc.) Photocopier Shredder Guillotine Office fans	 Fixed guarding preventing access to dangerous parts of machinery, an blades enclosed Follow manufacturers instructions Service contract for photocopier Photocopier located in separate room away from workstations to minimise distraction from noise ; window by photocopier can be opened to improve ventilation Sealed toner cartridges used 			•	None required
16	Driving at work RTAs Property damage Road rage - assault	 Driving /parking in accordance with Road Traffic Act (i.e. not driving under the influence of alcohol / drugs) and Univ. permit conditions Route planning, leave in plenty of time for visit Dti guidance on use of mobile phones issued 				 Consider checking driving licenses on appointment (review Univ. procedures) Staff should ensure they are adequately insured for business use Encourage accident reporting

APPENDIX 6

30	Site visits	See separate risk assessment			To include radiation risks - hazard 19
26	Stress	See separate risk assessment			
27, 29	Lone working, out of hours work Violence to staff / verbal assault	 University Safety Guides no. 7 Whereabouts of staff logged on in/out board No high risk activity outside normal hours (defined in Area Health and Safety Policy) Staff must use Building Occupants Register Two office mobile phones available Work activities usually non-confrontational, no 	•	•	 Encourage staff to phone in prior to leaving site to go home. Inform staff that office mobile phone should be taken on visit when staff feel vulnerable or visit in pairs Ensure log includes location
		cash handling - very low risk of assault			

Health and Safety Risk Assessments – continuation sheet

Assessment Reference No	HSS/OFFICE/04		
Continuation sheet number:	5		

SECTION 2 continued: Risk Controls

Hazard	Hazard Description	Existing controls to reduce risk	Risk I	Level (tick one) Further action needed to r		led to reduce risks	
No.			High	Med	Low	(provide timescales and ini	tials of person responsible for
15	Fire hazards Combustible material that may encourage the spread of fire Portable heaters Blocked means of escape Insufficient fire detection & extinguishers Overloaded / faulty electrical equipment (see hazard No. 10)	 Staff trained in fire safety prevention, fire evacuation routine and use of extinguishers - good level of awareness. Generally good housekeeping standards maintained in offices, staff responsible for own offices. No flammable materials used or stored Stationary supplies stored mainly inside cabinets, kept shut at night. Suitable means of escape provided, fire escape located nearby, and assembly point identified as rear lawn of Physics. Regular fire drills organised by Physics Dept. Detector heads , alarm sounder and 2 fire call points located in corridor by H&S offices CO₂ & water extinguishers and fire blanket located just outside office door (by room 108) All fire doors kept shut, those in corridor on automatic release catches No smoking policy maintained University Safety Guides no.s 5,6 & 34 	2			 Ensure all new mer safety induction Ensure all office f with no damaged s foam fillings etc. Staff should minin / empty boxes etc Regular clearouts paperwork require be arranged. Staff should alway heaters at night. O regarding the posi (keep away from c See also entries m Equipment' 	mbers of staff receive fire furniture is in good condition oft furnishing with exposed nise accumulations of paper that are no longer needed of waste and archiving of d. 'Housekeeping days' to ys switch off portable Care should be taken tioning of portable heaters ombustible surfaces). Nade under 'Electrical
Name of Assessor(s)		Helen Toll S Head of Health & Safety Services S	IGNED				Number of continuation sheets used:
Review	date	April 2005					5

EXAMPLE OF SPECIFIC RISK ASSESSMENT (Form RA2)

School / Dept / Unit	Department X, School of Y
	A: Identifying workplace hazards and existing controls
1. Brief summary of work activity or project assessed	Prolonged work with Display Screen Equipment (DSE)
2. List significant hazards	(select from those which apply)
	 Poor seated posture at DSE workstation. Prolonged use of laptop PCs Poorly designed workstation layout, e.g. monitor or keyboard too low / high, too far away from User Insufficient work space / obstructions on, under or around workstation (e.g. desks drawers causing obstruction, chair arms causing obstruction, items stored under or on desk, lack of room for keyboard and paper) Inappropriate equipment or furniture (e.g. chairs not fully adjustable, desks too small or too high). Repetitive movements - use of keyboard and mouse Insufficient breaks or changes of activity Reflections or glare on screen, images not clear or too small
3. Relevant University or local guidelines or standards	Health & Safety (Display Screen Equipment) Regulations 1992 (2002) – apply to staff University Safety Guide 13 – Visual Display Units University Leaflet – Good DSE Practice
4. List who might be exposed to the hazards	Staff designated as DSE Users (see Safety Guide - Visual Display Units, SG13) Students who use DSE for prolonged periods of time Staff using laptop PCs extensively
5. How might they be harmed? (type of injury or health problem that might result)	 upper limb disorders (musculoskeletal disorders) such as aches, pains, stiffness, loss of function, swelling, numbness or tingling in neck, shoulders, arms, hands or fingers eyestrain or soreness headaches and blurred vision fatigue and stress musculoskeletal disorders from carrying laptop PC personal security risks / risk of theft of laptop PC from car or person
6. List control measures in place to reduce risks Assess whether these controls are adequate, actually used in practice and regularly checked, where appropriate.	 (select from those which apply) Identify 'DSE users' and laptop users Carryout workstation assessments using University checklist in Safety Guide 13 - review annually Provide University DSE leaflet to staff and students Provide training to staff on correct posture and DSE workstation adjustment (e.g. ensure they attend a DSE Users course, provided by H&S Services) Free eyesight tests offered to all DSE Users Provide ergonomic office chairs and desks, foot rests, wrist rests etc. (as per guidelines) to DSE Users. Aim for similar standard of furniture for students. Good office organisation and layout to allow sufficient working space around each

	desk Encourage Encourage Health whe Provide teld Adequate s Provision of to windows Staff to ke days Conduct re Discourage conventione keyboard a Ensure lapt Encourage and to disg	DSE Users to take DSE Users to rep ephonists with 'han torage to avoid ne f adequate lighting if possible. eep area around an gular workplace he prolonged use of al terminals or ada nd mouse tops are stored se use of rucksacks t uise their presenc ghtweight laptops	e regular breaks/ ort health sympt nds free' phones eed to store mate g and window blin ad under their de ealth and safety laptop PCs - prov pt laptop workst curely and kept c to carry laptops - e , where possible.	Change activities oms (seek advice erials on desks th ds, position monit sks clear - have r inspections ride facilities to c ation using monit out of view in cars	from Occupational us restricting space tors at 90 degrees regular housekeeping connect laptops to or blocks, separate s eight more evenly				
	D: ASSESSIN	g the level of his	sk and further	action needed					
7.1 How severe is any injury or health effect likely to be?	Tick one box (S =score given in brackets)	Minor (1)	Serious (2)	Major (3)	Fatal (4)				
7.2. How likely is exposure to the hazard?	Tick one box (P =score given in brackets)Very unlikely (1)Unlikely (2)Possible (3)Likely (4)								
7.3. Calculate the risk score by multiplying the 2 scores in Q7.1 & 7.2	Risk Score (S x P) = 8	sore = 8Low (1-3)Medium (4-6)High \square (8-9)Very High (12-16)							

8. Immediate action to be taken to make the situation safe / reduce risk to health		Action to be taken by whom?	Implementation Date
(select from those controls listed above that are appropriate to your work area but are not currently being implemented)			
9. Further action or additional controls needed to reduce risk as low as reasonably practicable		Action to be taken by whom?	Implementation Date
(select from those controls listed above that are appropriate to your work area but are not currently being implemented)			
Name of Assessor (please print)			
Signature of Assessor		Date:	
Signature of Head of Dept/School/Unit		Date:	
10. Date for Review (maximum 12 months from date of assessment)			