

**THE CHARTERED INSTITUTE OF ENVIRONMENTAL HEALTH**

**NATIONAL RADIOLOGICAL PROTECTION BOARD**

**LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY**

**LOCAL AUTHORITY LASER SAFETY AWARENESS QUESTIONNAIRE**

Local Authority .....

Address .....

.....

.....

Postcode .....

Telephone .....

Fax .....

Name of person filling out this questionnaire .....

Position .....

Date questionnaire completed.....

1. How many times has your Local Authority had to deal with the use of lasers in the entertainment industry in the LAST 12 MONTHS?

If zero move to question 3

2. If possible can you break this down into the following categories:

Please enter number of each type of event in the appropriate box.

Permanent Installations (one week or longer) - Indoor

- Outdoor


Temporary Installations (less than one week)- Indoor

- Outdoor


## Appendix C

Types of lasers:

Please enter  
number of each  
type in the  
appropriate box.

Helium-Neon (He-Ne)

Argon ion

Krypton/Argon (White Light or Mixed Gas)

Copper Vapour

Neodymium:YAG (Nd:YAG)


Others (please specify) \_\_\_\_\_

3. How would you judge the level of expertise of your staff who either have dealt with laser events or who would do if the need arose?

Number of staff in each category

No experience

Basic knowledge

Experienced


(To judge the category to use, a set of test questions is included with this questionnaire. Someone with Basic knowledge should be able to get to at least question 3 : an experienced Officer should be able to answer all 6 questions).

4. How familiar are your staff with the HSE Guidance Document PM19?

Number of staff in each category

Never heard of it

Know of its existence

Seen forms provided by laser companies

Working knowledge

Detailed knowledge


Do you have a copy of PM19 for reference?

YES/NO  
appropriate

Delete as

## Appendix C

5. If you either use or would consider using external assistance where do/would you go?

Please tick all that apply

Other Local Authority	
Chartered Institute of Environmental Health (CIEH)	
Health and Safety Executive (HSE)	
National Radiological Protection Board (NRPB)	
Loughborough University	
Consultants	
Other (please specify) _____	

6. Would you consider training staff in how to assess the safe use of lasers in the entertainment industry? YES/NO Delete as applicable

If you have answered NO, please stop here and return the questionnaire in the reply-paid envelope. Thank you for your time.

7. What level of training would you require?

Please tick all that apply to your staff

Overview seminar (up to 2 hours)	
Basic awareness (1 day)	
Working knowledge (2 days)	
Detailed knowledge (4 days)	
I do not know enough to judge	

8. What format of presentation would you prefer?

a) if costs were equal

b) if costs differed according to the ratio 1:1.5:2

Formal lectures only		x 1	
Lectures supported by syndicate exercises		x 1.5	
Workshop (worked examples with demonstrations)		x 2	

## Appendix C

9. How far would you be prepared for staff to travel for such training?

Please put in order of preference (1 to 5) where 1 is most preferred option

Anywhere in UK  
A regional centre - eg Glasgow, Leeds or Oxford  
Up to 100 miles  
Up to 50 miles  
Within the County of this local authority only


10. Would you prefer any form of training to be assessed by a formal examination?

YES/NO

Delete as applicable

If you have answered NO, please stop here and return the questionnaire in the reply-paid envelope. Thank you for your time.

11. If you answered YES to question 10, should this examination be accredited?

YES/NO

Delete as applicable

If YES, by whom?

CIEH  
HSE  
NRPB  
Loughborough University  
Other (please specify) \_\_\_\_\_

Please tick one only


**Thank you for taking the time to complete this questionnaire.  
Please return it in the reply-paid envelope.**

## Appendix C

Questions to test the level of expertise in assessing the safety of laser systems at an entertainment event.

1. What is the most common type of laser used in the entertainment industry?
2. What is the potential harm from an entertainment laser?
3. Which British Standard covers laser safety?
4. What is the maximum permissible exposure for the laser specified in 1?
5. What is the nominal ocular hazard distance for the laser in 1 if the radiant power is 1 watt and the divergence is 2 mrad?
6. How is your answer to 5 altered if the beam is scanned?