

### **SECTION ONE: Training Needs**

#### **1a National RWM Organisation**

- 1.1 Name, address and other contact details of organisation and date established.
- 1.2 Number of specialist staff currently employed full time by this organisation (i.e. excluding administrative and support staff – assumed to have no specific training in RWM)
  - qualification profile of specialists employed (number of PhD, MSc, professional/registered engineers, lawyers, etc)
- 1.3 Specialist staff numbers year-by-year since establishment of the organisation.
- 1.4 Any national legal requirements for qualifications of specialists working in specific posts in RWM.
- 1.5 Anticipated future specialist staff numbers as a function of time (as far into the future as the organisation has plans prepared).
- 1.6 Breakdown, as a function of time if possible, of current and anticipated future staff specialisations:
  - nuclear and chemical engineering
  - radiation protection and safety assessment
  - earth sciences and rock engineering
  - biological and environmental sciences
  - civil engineering and underground construction
  - law and regulation
  - public relations and communications
  - other specialisations not listed above (specify)
- 1.7 Will new specialist staff need training in the broad, overall field of RWM?
  - all new specialist staff within a short period of their recruitment?
  - only key staff – about what proportion of all new staff?
  - training is compulsory or optional?
- 1.8 Specialist (e.g. continued or supplementary) training that will need to be provided in-house or externally
  - in-house (specify which topics are expected to be taught within the organisation and complete items 2.1 to 2.9 for this organisation)
  - externally (specify which topics are expected to be sought outside the organisation)
- 1.9 How are current E&T requirements in RWD catered for by the organisation?
  - who provides E&T (link to item 1.7)?

## 1b Other nuclear industry organisations employing staff in RWM

- 1.10 Name, address and other contact details of organisation
- 1.11 RWM responsibility and relationship to national RWM organisation
- 1.12 Number of specialist RWM staff currently employed full or part time by these organisations.
  - qualification profile of specialists employed (number of PhD, MSc, professional/registered engineers, lawyers, etc)
- 1.13 Any national legal requirements for qualifications of specialists working in specific posts in RWM.
- 1.14 Anticipated future specialist RWM staff numbers as a function of time (as far into the future as the organisation has plans prepared).
- 1.15 Breakdown, as a function of time if possible, of current and anticipated future RWM staff specialisations:
  - nuclear and chemical engineering
  - radiation protection and safety assessment
  - earth sciences and rock engineering
  - biological and environmental sciences
  - civil engineering and underground construction
  - law and regulation
  - public relations and communications
  - other specialisations not listed above (specify)
- 1.16 Will new specialist staff need training in the broad, overall field of RWM?
  - all new specialist staff within a short period of their recruitment?
  - only key staff – about what proportion of all new staff?
  - training is compulsory or optional?
- 1.17 Specialist (e.g. continued or supplementary) training that will need to be provided in-house or externally
  - in-house (specify which topics are expected to be taught within the organisation and complete items 2.1 to 2.9 for this organisation)
  - externally (specify which topics are expected to be sought outside the organisation)
- 1.18 How are current E&T requirements in RWD catered for by the organisation?
  - who provides E&T (link to item 1.7)?

## **1c Regulatory & government advisory organisations employing staff in RWM**

- 1.19 Name, address and other contact details of organisation
- 1.20 RWM regulatory or advisory responsibility
- 1.21 Number of specialist RWM staff currently employed full or part time by these organisations.
- qualification profile of specialists employed (number of PhD, MSc, professional/registered engineers, lawyers, etc)
- 1.22 Any national legal requirements for qualifications of specialists working in specific posts in RWM.
- 1.23 Anticipated future specialist RWM staff numbers as a function of time (as far into the future as the organisation has plans prepared).
- 1.24 Breakdown, as a function of time if possible, of current and anticipated future RWM staff specialisations:
- nuclear and chemical engineering
  - radiation protection and safety assessment
  - earth sciences and rock engineering
  - biological and environmental sciences
  - civil engineering and underground construction
  - law and regulation
  - public relations and communications
  - other specialisations not listed above (specify)
- 1.25 Will new specialist staff need training in the broad, overall field of RWM?
- all new specialist staff within a short period of their recruitment?
  - only key staff – about what proportion of all new staff?
  - training is compulsory or optional?
- 1.26 Specialist (e.g. continued or supplementary) training that will need to be provided in-house or externally
- in-house (specify which topics are expected to be taught within the organisation and complete items 2.1 to 2.9 for this organisation)
  - externally (specify which topics are expected to be sought outside the organisation)
- 1.27 How are current E&T requirements in RWD catered for by the organisation?
- who provides E&T (link to item 1.7)?

## **SECTION TWO: Capabilities and Activities**

### **2a Non-University organisations providing E&T in RWM**

- 2.1 Name, address and other contact details
- 2.2 Type of organisation (institution, association, foundation, private, public, etc)
- 2.3 Relationship, if any, to national waste management organisation, other nuclear industry organisations or government bodies.
- 2.4 Type of RWM E&T provided
  - stand-alone courses
  - courses linked to industry
  - courses leading to a professional qualification from a national institution (specify)
  - accredited degree courses linked to Universities (specify degree)
  - distance learning courses
  - teaching resource materials for educational institutions (e.g. schools)
- 2.5 Nature of course teaching
  - entirely taught by lectures
  - involve practical training
  - include individual project work
- 2.6 Length of time for which RWM E&T has been provided
  - link this information to E&T types in 2.4
- 2.7 Course subject areas
  - link this information to E&T types in 2.4
- 2.8 Frequency of course
- 2.9 Course participants
  - Average numbers for each type of course
  - Their typical age distributions
  - Total participants who have taken a course since its inception
  - Where participants come from: industry, government, academia, NGOs, etc
  - Breakdown of national and international course participants (which countries and organisations they come from)
  - Any problem/concerns/difficulties frequently encountered with course.
  - Any qualification required for participation.
- 2.10 Specific facilities, equipment and tools available for RWM E&T
  - laboratories, RWM facilities, computer codes, etc

## 2b University courses

- 2.11 Name, address and other contact details of University and School, Faculty or Department
- 2.12 Name of course
- 2.13 Type of course
  - complete course on RWM
  - module within a broader course outside RWM (define any connections with other modules relevant to RWM taught at the same University)
- 2.14 Degree or diploma level
  - number of course credits (as % of total degree/diploma credit requirement)
- 2.15 Length of course
- 2.16 Is the course wholly taught or does it involve external project work?
- 2.17 Partnership with industry (specify organisations)
- 2.18 Date course began
- 2.19 Course participants
  - Acceptance criteria for the course
  - Average numbers for the course
  - Total participants who have taken the course since its inception
  - Number of participants from other universities or from industry
  - Number of participants from other countries (specify)
  - Do students find employment in RWM?
- 2.20 Specific facilities, equipment and tools available for RWM E&T
  - laboratories, computer codes, etc

## **SECTION THREE: General**

- 3.1 Are there any national initiatives to co-ordinate or improve E&T in RWM?
- 3.2 Is there a long-term national strategy for RWM E&T?
- 3.3 Are there any special national funding provisions to provide RWM E&T?