

Annex 18

CONDITIONS FOR RECEIVING CERTIFICATE OF COMPETENCY OF CHEMICAL ASSESSMENT EXPERT

Introduction

Persons who has attended training on subjects given in Section 2 of this Annex and received a certificate of competency that was given by an institution that has been accredited by Turkish Accreditation Institution (TÜRKAK) for personnel certification on chemical assessment or who has worked in the Ministry in the field of chemicals management for at least 10 years shall be defined as “chemical assessment expert” in the scope of this By-law.

SECTION ONE

Training, Certification, Exam of competency and certificate of competency for chemical assessment

1- Training and training institution

- a) Period of training shall be at least 64 hours on subjects given in Section 2 of this Annex.
- b) Daily training period shall not exceed 8 hours and in this period max. 2 hours break may be given.
- c) Training shall be given by the experts who meet the criteria stated in Section 4 of this Annex.
- ç) Maximum participant number shall not exceed 30 persons per training.
- d) Trainings, shall conducted in an appropriate and efficient place which enables practices to be done.
- e) Training venues shall have appropriate thermal comfort conditions and adequate lightning.
- f) Equipment which will be used in the trainings, shall be up to date technology.
- g) Training institution, shall submit training programme, which is prepared according to Sections 2 and 4 of this Annex, for approval to the General Directorate of Environmental Management of the Ministry of Environment and Urbanisation.
- ğ) After taking approval from the Ministry, training institution shall start to give at least 64 hours of face-to-face training on the subjects given in Section 2 to the nominees who will take the chemical assessment expert competency examination.
- h) Trainings given by the training institutions shall be observed by the personnel of General Directorate of Environmental Management of Ministry of Environment and Urbanisation at least once in a year.
 - 1) when during the observation referred in paragraph (h), in the case of nonconformity to the above stated training conditions, training institutions shall not resume trainings until nonconformity is removed. If nonconformity is not removed in 12 months, the approval certificate of training institution shall be revoked by the Ministry.

2- Certification

- a) Certification institution;

- 1) Shall submit the certification programme prepared according to sections 3 and 5 of this Annex to the Ministry.
 - 2) After receiving positive opinion of the Ministry, shall apply to the Turkish Accreditation Institution (TÜRKAK) for personnel certification on chemical assessment in the scope of ISO 17024.
 - 3) After accreditation, may start to certify personnel on chemical assessment.
 - 4) Shall send contact information, the date and number of competency certificate within in one month from the certification date to the Ministry in writing.
- b) Ministry, shall publish in its website certification institutions accredited by TÜRKAK.

3. Competency examination

- a) Competency examination questions shall consist of two parts as multiple-choice and classic. Examination subjects and scoring is given in the section 5 of this annex.
- b) Examination duration is 180 minutes.
- c) Without prejudice to paragraph 4(c) in section 1, nominees who has taken the trainings according to paragraph 1 in section 1 and meet the requirements stated in section 3 may attend the examination.
- ç) Nominees who scored below 70 in the competency examination, shall have the right to attend the examination two more times in a year without training requirement.

4. Competency certificate

- a) Nominees who scored 70 and above in the examination given by the certification institution shall have right to receive chemical assessment competency certificate.
- b) Validity period of the chemical assessment competency certificate is 5 years.
- c) Persons who want to renew their certificate shall attend the examination in the validity period of their certificate or in 2 years after the expiration date of their certificate without training requirement.
- ç) Competency certificate of persons, who has attended and succeeded the competency examination referred in paragraph (c), shall be revoked. These persons shall be certificated by given a new certificate number.
- d) Persons who documented that they worked in the Ministry on the chemicals management for 10 years shall be certificated by the certification institution without entering competency examination. In this case, the accreditation institution is responsible for the certificates given to these persons.

SECTION 2

TRAINING SUBJECTS AND DURATION

Training subject	Duration (hour)
Chemicals Management	At least 3
Legislation:	At least 5

<ul style="list-style-type: none"> ● Bylaw on Classification, Labelling and Packaging of Substances and Mixtures, ● Transportation and Storage of Dangerous Goods ● Occupational health and safety ● Registration, Evaluation, Authorisation and Restriction of Chemicals 	
Classification of substances and mixtures according to; <ul style="list-style-type: none"> ● Physico-chemical properties ● Toxicological properties ● Ecotoxicological properties 	At least 12
Chemicals-human health risk assessment	At least 12
Chemicals-environmental risk assessment	At least 8
Exposure scenarios	At least 8
Chemical Safety Assessment (CSA), Chemical Safety Report (CSR)	At least 8
Requirements for preparation of Safety Data Sheet	At least 8

SECTION 3 CRITERIA FOR ENTRY OF THE EXAMINATION

- a) Being attended at least 64 hours training and,
- b) Having a Bachelor degree from fields related to chemistry, biology or environmental sciences of Faculty of Science/Science and Literature or Faculty of Engineering or,
- c) Having a MSc or PhD related to chemistry science or,
- ç) Having a Bachelor degree from other departments of the universities and working at least 5 years on manufacture, laboratory, quality control or chemicals management related in the field of chemicals.

SECTION 4 CRITERIA FOR TRAINERS

- a) Having a Bachelor degree from chemical engineering, environmental engineering, chemistry, biology, chemistry education or biology education departments and working at least 3 years on manufacture, laboratory, quality control or chemicals management related in the field of chemicals and being trained on each subject of training subjects of Section 2 of this Annex for at least durations given in Section 2 and being able to document this.
- b) Having a Bachelor degree from other departments of the universities and working at least 5 years on manufacture, laboratory, quality control or chemicals management related in the

field of chemicals and being trained on each subject of training subjects of Section 2 of this Annex for at least durations given in Section 2 and being able to document this.

SECTION 5

EXAMINATION SUBJECTS AND SCORING

Examination shall consist of 25 multiple-choice question (with at least 4 choices) and 5 classic questions. Number of questions and scoring of the multiple-choice and classic questions according to subject headings is given in Table-1. In scoring, only right answers shall be taken into account, wrong answers will not affect the scoring of the right answers.

Table-1. Number of Competency examination test questions per subject heading and scoring.

Subject headings of test questions	Number of questions	Score	Total score
Legislation	15	2	30
Chemicals management	2	2	4
Classification knowledge	8	2	16
Classic:			
Human health risk assessment	1	10	10
Environmental risk assessment	1	10	10
Exposure scenarios	1	10	10
CSA/CSR	1	10	10
Preparation of SDS	1	5	5
Preparation of registration dossier	1	5	5
	6		50
TOTAL SCORE			100