



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	Master Science Degree of Industrial Medicine and Occupational Health
(2) Department offering the programme.	Public health and community medicine department
(3) Department responsible for teaching the course.	Public health and community medicine department
(4) Part of the programme.	Second Part
(5) Date of approval by the Department's council	
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Assessment of Risk, Medical Fitness and Disability, and Work Legislation Aspects
(8) Course code.	PHPM 518 AR-MFD-LA
(9) Credit hours	1 Cr. hours academic lectures + 1 Cr. hours practical
(10) Total teaching hours.	30 hrs Academic lectures 30 hrs Practical teaching

(B) Professional information

(1) Course Aims:

The broad aims of the course are to educate the candidate

The basic steps of risk assessment of hazards at the workplace.

The principles of medical fitness of workers at preemployment and periodic examination.

The evaluation of disability for compensation purposes.

The different work legislations.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to:

(1) A- Knowledge and Understanding

- A1: Explain essentials of Occupational hygiene practice.
- A2: Explain value of biological monitoring and biomarkers in Occupational hygiene.
- A3: Describe sequential steps of Risk Assessment in practice
- A4: Describe methods for assessment of fitness to work.
- A5: Describe disability assessment for all body organs and systems.
- A6: Discuss legislation governing compensation for occupational diseases and injuries.
- A7: Recognize points of difference between legislation in Egypt and other countries.

2- Intellectual activities (I)

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

B- Intellectual skills

- B1: Organize a plan for practical risk assessment of an industry or a workplace.
- B2: Interpret Occupational Hygiene measurements of the workplace environment.
- B3: Calculate disability ratings for various body organs and systems according to Egyptian law.
- B4: Compare between Egyptian system for disability ratings and other systems (UK, India).
- B5: Illustrate guidelines for assessment of fitness like fitness-for-duty for commercial drivers.
- B6: Interpret legislation concerned with labor laws and compensation claims.

C- Professional/practical skills

- C1: Undertake assessments of working environment, recognize hazards, and provide preliminary advice.
- C2: Undertake simple quantitative measurements and interpret more detailed measurements.
- C3: Recognize situations where specialist assessment of the working environment is needed.
- C4: Carry out health surveillance including biological monitoring.
- C5: Perform clinical assessments of disability and fitness for work on request.
- C6: Assess residual capability for work in those with a disablement/impairment.
- C7: Advise on impairment, disability, fitness for work, rehabilitation and redeployment.
- C8: Liaise with other health professionals of vocational rehabilitation and occupational therapy.

D- Communication & Transferable skills

- D1: Learn teaching and learning skills.
- D2: Design and deliver a teaching event/ or short course.
- D3: Identify Intended learning outcomes of a teaching event.
- D4: Teach large and small groups effectively.
- D5: Select and use appropriate teaching resources.
- D6: Give constructive effective feedback.
- D7: Evaluate programs and events.
- D8: Learn how to work as a team member and as a team leader.
- D9: Develop critical thinking and peer-reviewing skills.

Course content.

Subjects	Lectures	Practical
Module 1 First topic: Assessment of Risk in Practice. (1) Introduction to Risk Assessment in Practice. (2) Framework of Walk-through Surveys. (3) Sampling strategies. (4) Workplace Exposure Limits (USA, UK, Egypt). (5) The Control of Substances Hazardous to Health (COSHH) Regulations; and allied regulations in Egypt (Environment Law, 1994). (6) COSHH assessment form and allied forms. (7) Hazard data sheets (Material Safety Data Sheets).	7½ hrs	15 hrs
Module 2 First topic: Assessment of Risk in Practice (cont.) (9) Health Risk Assessment: Practical Details. (10) Biological Monitoring and Biomarkers (i) (11) Biological Monitoring and Biomarkers (ii) (12) Medical records.	7½ hrs	15 hrs

(13) Role of epidemiological studies in Risk Assessment. (14) Personal Protection of the Worker (i) (15) Personal Protection of the Worker (ii)		
Module 3 Second topic (Module): Medical fitness and Disability. (1) Definitions and distinction between impairment and disability. (2) The science of impairment evaluation. (3) Elements of an impairment evaluation report. (4) Principles of assessment of medical fitness. (5) Assessment of fitness to drive motor vehicles. (6) Assessment of Cardiopulmonary Disability (i) (7) Assessment of Cardiopulmonary Disability (ii) (8) Assessment of disability due to end-organ impairment: liver. (9) Other disability assessment issues. Third topic (Module): Legislation related to Occupational health in Egypt. (10) Schedule of Occupational Diseases in Egypt. (11) Labor laws concerning Child labor, and women employment.	7.5 hrs	15 hrs

(2) Teaching methods:

4.1.... Lectures

4.2: ... Seminars

4.3: ... Tutorial

4.4: ... Workshops

(3) Assessment methods:

5.1 Written exam for assessment of knowledge and intellectual ILOs

5.2 Oral exam for assessment of knowledge and intellectual ILOs

5.3 Clinical exam for assessment of knowledge and intellectual ILOs

5.4 MCQ exam for assessment of intellectual ILOs

(4)Assessment schedule:

Assessment 1.....MCQ.....at the end of each semester (15th week)

Assessment 2: Written exam after 36 months of the start of the job.

Assessment 3: Oral exam 36 months of the start of the job.

Assessment 4: Practical exam: 36 months of the start of the job.

Percentage of each Assessment to the total mark.

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Written:80 Marks

MCQ 20 Marks ::

Three MCQ exams one for each module (at the end of each semester);

- Module 1; 7 Marks
- Module 2 :7 marks
- Module 3 :6 Marks

Structured Oral: 40 Marks

OSCE clinical: 60 Marks

6.2: Text books:

Environmental and Occupational Medicine (4th ed.) by William N. Rom.
Textbook of Clinical Occupational and Environmental Medicine (2nd ed.) by
Cullen M and Rosenstock L.

Pocket Consultant of Occupational Health, UK.

Text book of Public Health, Maxcy Roseneau (Wallace, 14th ed).

6.3: Journals... Publications of national and international Occupational and Environmental Medicine Associations: Egyptian Society of Occupational and Environmental Medicine Journal, American College of Occupational and Environmental Medicine Journal (OEM), OSHA and NIOSH publications, ILO publications.

6.1: Websites:

http://www.ilo.org/safework_bookshelf/english?d&nd=170000102&nh=0

6.1: Others:

<http://www.niosh.com> + <http://www.acoem.com>

(4) Facilities and resources mandatory for course completion.

Candidates and their learning are supported in a number of ways:

- Induction course introducing study skills
- Candidates logbook
- Programme Specification and Handbooks

- Extensive library and other learning resources
- Computer laboratories with a wide range of software
- Intranet with a wide range of learning support material
- Ph.D Dissertation Supervisor
- Others

Course coordinator: Prof. Emily kamel, Prof. Adel El-Weheidi, Dr. Nabil Joseph, Dr. Hala Samir

Head of the department: Prof. Mohamed Azmy Khafagy

Date.

P.S. This specification must be done for each course.