Course Literature

Charney W. Handbook of Modern Hospital Safety. Lewis Publishers: New York, 1999.
Nielsen R, Jorgensen K. Advances in Industrial Ergonomics and Safety. Taylor and Francis, London, 1993.
Bognan MS (Ed). Human Error in Medicine. Lawrence Erlbaum Associates: New Jersey, 1994.).
Shojania K, G, Duncan B.W, McDonald K.M, Wachter R.M. Making Health Care Safer. Evidence Report/Technology Assessment, No. 43.

Entrance Qualifications

Completed degree of at least 120 credits (3 yearsí academic study) or the corresponding degree in another country (180 ECTS Credits).

Course Fee
No course fee!

Language
English

Location and Organiser
Karolinska Institutet
Department of Public Health Sciences
Division of Social Medicine, Norrbacka
SE-171 76 Stockholm, Sweden

Application Deadline: 15 April 2003

Application Form
http://info.ki.se/education/forms/courses.pdf

Registration Code: 091H3

Send Application to
Karolinska Institutet, Studentavdelningen, Antagningsgruppen
SE-171 77 Stockholm, Sweden

Further Information
Moa Sundstr^m
E-mail:moa.sundstrom@smd.sll.se
Phone: + 46 8 517 779 48
Fax: +46 8 33 46 93

DEGREE OF MASTER IN MEDICAL SAFETY

40 Credits
(60 ECTS Credits)

Stockholm, Sweden
1 September 2003 - 6 June 2004

Karolinska Institutet
Department of Public Health Sciences
Division of Social Medicine
Stockholm, Sweden

Degree of Master in Medical Safety

1 September 2003 - 6 June 2004
Stockholm, Sweden

Responsible for the Course
Associate Professor Bjarne Jansson
Karolinska Institutet
Department of Public Health Sciences

Course Objectives

Knowledge concerning statutes and regulations governing safety in the medical and health care field. Knowledge of theories and principles for risk analysis and preve safety promotion. Skills and competence in risk analysis in a clinical environment and risk communication. Analytical ability to assess the information required for optimal safety in a work situation and measures to raise the level of competence. The ability to assess ways in which safety systems can be adapted to the medical care sector in terms of organisation, knowledge checks of personnel, work restrictions and regular risk analyses, including reporting of incidents and deviations.

Course Contents

Introduction to Public Health Sciences - 5 Credits

Theories and concepts. Scientific theory. Public health in a historical and international perspective. Sickness patterns and risk factors. Ethics in the public health process. Information retrieval and review. Lectures and group exercises (PBL).

Flight Safety and Health Care - 1 Credit

Introduction to support systems in the safety field, with civil aviation as a model. The ability to analyse ways in which civil aviation safety systems can be adapted to the medical care sector in terms of organisation, knowledge checks of personnel, work restrictions and regular risk analyses, including reporting of incidents and deviations.

Legislation and Liability - 1 Credit

Legislation and regulations that govern safety in the health care sector. Knowledge concerning liability issues and the operations of the supervisory authorities. New responsibilities for manufacturers. Reporting of incidents by users and manufacturers. The scope of supervisory responsibilities. Legislation and practical application. New definitions. The care providerís responsibilities for use or prescription. Mandatory notification requirements.

Risk Analysis - 4 Credits

Review of the most common methods: fault tree analysis, deviation analysis, energy analysis, HAZOP, job safety analysis and analysis methods which may be employed to determine risks in relation to medical/technical equipment. Examples of analysis cases.

Safety Control and Safety Maintenance - 4 Credits

The course unit includes checking electrical installations, the use of gas equipment, X-ray equipment, radiation protection, electromedical equipment and protection against infection.

Design and Construction - 4 Credits

Risk analysis both in relation to the technical design of specific apparatus and the design of the hospital environment. The ability to apply specific risk identification procedures for medical/technical apparatus.

Education Competence and Training - 3 Credits

Analysis of the requirements for completing a specific task in a manner compatible with patient and personnel safety. Measures to improve skills required prior to the introduction of new medical/technical products.

Implementation in Health Care and Education - 3 Credits

Knowledge concerning ways of implementing the new approach to risk analysis and safety in health care and education systems. Use of databases.

Scientific Methods and Thesis Writing - 5 Credits

Theories and methods. Planning the studentís own thesis, research plan, design, analytic methods and report-writing conventions.

Degree Project in Medical Safety - 10 Credits

Planning, data analysis, report writing and examination in a public seminar.

Forms of work

Lectures, group work, calculation exercises, data analysis, problem-based learning (PBL) and seminars. Internet-based distance learning.

Examinations

Examinations take the form of individual tests, group works, participation in seminars and an individual degree/thesis project.