

RSH 203

Radioactive Waste Management

INTRODUCTION

Radioactive waste includes any material that is either intrinsically radioactive, or has been contaminated by radioactivity, and that is deemed to have no further use. Government policy dictates whether certain materials - such as used nuclear fuel and plutonium - are categorized as waste. Every radionuclide has a half-life - the time taken for half of its atoms to decay, and thus for it to lose half of its radioactivity. Radionuclides with long half-lives tend to be alpha and beta emitters - making their handling easier - while those with short half-lives tend to emit the more penetrating gamma rays. Eventually all radioactive waste decays into non-radioactive elements. The more radioactive an isotope, is the faster it decays. Radioactive waste is typically classified as either low-level (LLW), intermediate-level (ILW) or high-level (HLW), dependent, primarily, on its level of radioactivity.

This 2-day course designed to generate greater awareness on the importance of good in managing the radioactive waste and to promote safety culture through good radiation protection practice at the workplace. In this regard, the safety of personnel, member of the public the environment can be raised to the standard of the best and ultimately to increase your productivity.

COURSE OBJECTIVES

- To provide better understanding of the philosophy and principles of radiation
- To create awareness on biological effects and the risks of ionizing radiation
- To learn the right procedures when dealing with ionizing radiation
- To acquire the techniques and proper procedures in controlling the radiation exposure to the radiation workers.

CEP POINT

Those who attended this course will obtain CEP points from these organizations:

AELB - 14 CEP Points

COURSE CONTENTS

- Principle of Radioactive Waste Management
- Introduction to Radioactive Waste
- Regulations of Radiation Protection and Legislative Requirements
- Security of Radioactive Materials and Radioactive Sources
- Characterization & Classification of Radioactive Waste
- Pre-disposal Management of Radioactive
- Waste : Waste Storage & Waste Handling
- Waste Disposal methods & Techniques
- Transportation of Radioactive Waste Safety Cases and Assessments
- Emergency Preparedness and Response while Handling Radioactive Waste
- Security of Radioactive Materials and Radiation Sources

WHO SHOULD ATTEND

Safety officer, RPO, RPS, radiation worker, radiologist, radiographer, x-ray operator, supplier, supervisor, lecturer, technologist, technician, laboratory assistant and those who are involved and interested in the application of ionising radiation in various sectors-industry, engineering, petroleum and gas, medical, manufacturing, agriculture, etc.

PARTICIPANTS

All level of personnel and those who are interested and involved in the use of ionising radiation.