

Building Utilities and Services

Course Description

Buildings are not just about foundations and structure. There are aspects like the utilities and services that will be supplied to take into consideration when constructing a building. The course is designed to help engineers and those involved in the construction field to have a better hindsight in developing supply systems to their building. They'll learn the latest technologies and solutions to solved common problems to successfully create buildings that adhere to the building codes and regulations.

Learning Outcomes

- Understand the different utility supply systems
- Understand the importance of regular maintenance check-up of utilities and services
- Understand how energy and water is consumed by your building

Teaching Methods

This course will use lectures with visual presentation and interactive discussion.

Course Outline

Introduction to Building Services and Utilities

- Difference between utilities and services
- Identifying the services and utilities in your building
- Building Regulations

Building utility supply systems

- Water Supply System
- Drainage System

Electrical and Lighting Services

- Using appropriate lighting in Buildings
- Electrical Circuits and fuse boards
- Use of Renewable Energy

Heating and Cooling

- Types of Heating System
- Simple and Complex Cooling System
- Proper Ventilation
- Heat Recovery

Maintenance and Operations

- Creating Maintenance Plan
- Maintenance issues
- Contingency Planning

