

Warehouse Management

This class introduces the concept of warehousing and its critical importance to the management of an optimal supply chain. It delivers the knowledge and understanding of the key elements of warehouse management practice that are fundamental to commercial organisations. It is aimed at management students or those already in the industry who require a greater insight into the role of the warehouse in today's supply chain and how effective warehouse management can lead to increased profitability.

Warehouse management consists of the following modules:

- Picking methodology
- Warehouse technology
- Performance measurement
- Operations improvement
- Development of teams and individuals

Programme Aims and Learning Outcomes

Aims

- To understand and critically analyse the role and importance of the warehouse within a global supply network.
- To examine potential warehousing functions and how it can be used to add value.
- To identify and critically analyse the types of warehousing facilities that exist (chilled, bonded, leased, owned, 3PL, 4PL, etc)
- To examine and critically evaluate in a supply chain context the primary functions of warehousing movement, storage, and information transfer in order to design the optimal internal layout for a warehouse.
- To use advanced analysis methods for making decisions on warehouse (facility) location within a supply network(s).
- To develop a comprehensive awareness of the various types of automated and non-automated material handling systems utilised in warehousing.
- To examine the role of warehousing in a just-in-time (JIT) environment, information technology, warehousing and the networked supply chain.
- To understand the use of advanced planning skills for managing and staffing the warehouse.
- To identify the documentation and legal issues which need to be addressed in warehouse management.

Learning Outcomes

On completion of this course students should:

- Be able to explain the fundamental role warehousing provides in management of an effective supply chain;
- Be familiar with the methodology involved in the warehouse design process and the benefits and limitations of modelling warehouse decisions;
- Recognise the advantages and disadvantages that alternative warehouse configurations can provide;
- Explain the significance attached to order picking activities, its varying forms, and improvement opportunities;
- Identify the potential enabling IT opportunities that exist within the warehouse environment and understand implementation issues;

- Detail the requirement for monitoring and measuring performance.

Teaching and learning strategies

The course is delivered through a multidisciplinary programme consisting of:

- i. Formal lectures/workshop, seminar and small group sessions
- ii. Evaluation of candidates' knowledge of warehouse management.