

# Basics in Supply Chain

## Infos pratiques

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- > ECTS : 4.5
- > Nombre d'heures : 18.0
- > Langue(s) d'enseignement : Anglais
- > Niveau d'étude : BAC +4
- > Période de l'année : Enseignement septième semestre
- > Méthodes d'enseignement : En présence
- > Forme d'enseignement : Travaux dirigés
- > Ouvert aux étudiants en échange : Oui
- > Composante : Langues et cultures étrangères
- > Code ELP : 4V7AISC

## Présentation

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### Syllabus :

#### 1 – Logistics and Supply Chain

- Background, definition, perimeter, operations (inbound and outbound logistics), flows
- From logistics to Supply Chain, the different organisations of the Supply Chain, map of flows and operations
- Internal environment: relations between the organisational structure of the company and the organisation of the Supply Chain, process and system approaches, interrelationships and cross-functionality within the Supply Chain
- External environment: managing operations globally, impact of globalisation issues and stakes on the management of flows, impacts of the OmniChannel era on the Supply Chain

#### 2 – Supply Chain Management

- **SCM** Concept, definition, perimeter, missions, core processes, SCOR model (Supply Chain Operations Reference model)
- Strategic, tactic and operational components of the Supply Chain Strategy,
- Supply Chain strategies : distribution, transport, production, inventory, sourcing,

- Information flow and IT tools : needs, sources, role, management, tools

- Value creation and Supply Chain Management key issues,

- **Demand planning**: definitions, planning levels, required data, objectives,

- Demand planning tools (plan what with what tool?) Strategic Plan, Strategic Marketing Plan, S&OP (Sales and Operations Planning), Master Production Schedule, from forecasts to products distribution to end customers, DRP, CPFR, VMI

#### 3 – Supply Chain Performance Strategy

- Defining objectives and monitoring metrics: objectives, how? (the Voice of the customer, the SLA, lead times, costs, process performance) SMART method, examples of metrics and performance dashboards
- Restraining forces to Supply Chain optimisation : silo organisation, wastes, poor quality costs,
- Continuous improvement tools and levers : ABC analysis, OTIF, Customer Satisfaction Survey, supplier performance, the Total Cost of Ownership (TCO),
- Applying a DMAIC approach to suppliers' performance management (from 'As Is' to 'To be', gap analysis and action plan)

### Teaching methodology :

- Lecture illustrated with articles from professional magazines/web sites
- Short cases to be analysed and presented during course (check knowledge acquisition on a continuous basis)
- MCQ and vocabulary quiz to validate knowledge acquisition

## Objectifs

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### Training objectives :

- \* Acquire and have command of the basic knowledge required to understand the Supply Chain concept in an international environment; this includes the definition of the Supply Chain, the control and synchronisation of the Supply Chain flows, the demand planning and forecasting.

- \* Understand the issues and stakes of cross-functionality in the Supply chain
- \* Understand the strategic issues and stakes of the international and customer-driven Supply Chain (and of logistics)
- \* Understand how the Supply Chain is critical to sustain a global competitive business strategy
- \* Acquire the professional vocabulary of the Supply Chain

Responsable pédagogique  
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## Évaluation

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- \* Class work and participation 40%
- \* Individual homework 60%

## Bibliographie

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- Pratique du Supply Chain Management en 37 outils – Michel Fender, Franck Baron - Dunod
- Logistique et Supply Chain – Michel Fender et Yves Pimor – Dunod – 6ème édition -
- Logistics and Supply Chain Management – Creating Value, adding networks – de Christopher Martin
- Operations Management in Supply Chain – Decisions and Cases – Schroeder, Meyer Goldstein, Rungtusanatham - 6th edition - - Recommended -
- Lean Supply Chain and logistics management – Paul Myerson – McGraw Hill

## Ressources pédagogiques

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### Internet Resources and others Cases

- Short cases (starbucks, Zara, Louis Vuitton, Walmart, Ikea)
- Case for further reading

### Internet sites

- Supply chain Dive operations – inscription newsletter gratuite
- <http://www.vestedway.com/vested-library/> - case studies and white papers
- <http://www.supplychainquarterly.com/whitepapers/> - white papers

## Contact(s)

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