

COURSE: PRODUCT DEVELOPMENT PROJECT



Justification. Many high-tech firms (electronics, pharmaceuticals, software) focus their activities on developing new products that will be produced in series by a subcontractor. These firms manage their research and development projects using a push approach: A manager plans all product development activities and makes a follow-up when the prototype is ready. The designers work independently and do not interact continuously with the customer, the subcontractors and the materials suppliers.

Goal. This course presents the procedures to manage a product development project using a pull approach: The team of designers plans and executes the development activities. In addition, continuously this team reviews the product development progress, interacts with the customer and re-schedules the product development activities. Otherwise, the product design takes into account the product lifecycle.

Content.

- Principles to manage projects using push and pull principles (1 hour)
- Procedure to manage product development using agile principles (2h)
- Principles to design a product considering its lifecycle (1h)

- Overview of software to manage product development using agility(1h)
- Overview of software to design a product considering its lifecycle (1h)
- Strategies to introduce agile and lifecycle management in firms (1h)

Material. The attendees receive a collection of papers covering the five topics above.

Lecturer. J. Macedo. Former full-time professor at the University of Montreal (Business School) and the University of Quebec (Textile and Apparel School). He holds a Post-doctorate certificate in manufacturing systems engineering from Virginia Polytechnic Institute (USA), a Ph.D. in industrial engineering (operations research) from the University of Sevilla (Spain), a master in business administration from University Laval (Canada) and a certificate in business modeling using system dynamics from the Massachusetts Institute of Technology (USA). He is co-founder of the consulting firm Institut Strategies Industrielles. He has consulted by many firms on production system design, productivity improvement and supply chain management. He has written 50 academic papers, 2 books and is reviewer for top academic journals covering these subjects. He is co-founder of Flash Textiles industrial group where he acted as a global operations manager. He was a speaker in operations management conferences in 15 countries in America, Europe and Asia.

Date of the course. *To be defined.*

Course classroom. *To be defined.*

Registration process. *To be defined.*

Course fees. *To be defined.*

Registration dates. *To be defined.*

**Institut Strategies Industrielles, 2204 Rene Levesque, Montreal (QC), H3C1R6, Canada.
www.isiconsultant.com. Tel. (514) 942-6960. E-mail: info@isiconsultant.com**