

# Industrialization



ECTS  
5 crédits



Hourly volume

## Introducing

- Demonstrate that final product manufactured is conform to expectations

## Description

## Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):  
The systems of industrialization and its interfaces. The challenges of production management (PM) and supply chain (SCM) as well as issues of scheduling.

What is configuration management, what are the enablers and what is the purpose

The student will be able to:

- Have an overview on manufacturing processes
- Understand the historical context of Industrialization
- Have a critical view on global manufacturing strategy
- Understand the elements on Smart Manufacturing and Industry 4.0
- Use the information of the different types of Industrial Management Tools
- Roughly describe airbus world (A/Cs family, industrial sharing across the Europe)
- Define a hierarchical & appropriated breakdown of a complex product
- Apply the change process and identify required data to allow decision
- Identify mechanisms that enable management of product offer and its customisation

## Necessary prerequisites

Not applicable (no pre-requisit needed)

Reading of plans, current metallic materials, various types of machining.

Basic elements on: probabilities -Linear programming -

## Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

## Practical info

## Location(s)

 Toulouse