

MEVEL, Fostering the Virtual Mobility within the Metal Sector

Project No. 2013-1-ES1-LEO05-67974

Title of the course: *SMART TOOLS FOR PRODUCTION MANAGERS*

Author institution(s)

FVEM (ES)

FFE (ES)

IVAC (ES)

SIAV SpA (IT)

Bfi STMK (AT)

POINT LLC (TR)

VDU (LT)

Teacher(s):

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Target group/intended audience:

Production Managers of the metal industry, Engineers bearing controlling responsible and Apprentices/Students

Course general objectives:

- Develop the professional technical English vocabulary and to feel good by talking English
- Learn about processes, methods and the application of tools to be able to continuously analyze and improve the work (space) and make processes more efficient and lean as well as considering cost relevant factors.
- Learn how to utilize the material/ processes / organization in a cost effective way, how to efficiently utilize working time and how to identify potential savings.
- Define and improve actions to reduce product components variety
- Apply visual planning to manage projects
- Improve ICT, WEB 2.0 understanding and SW utilization in the sector for increasing workplace activities' efficiency
- Recognize and use management tools to provisioning the production.

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- Recognize and use management techniques, by analysing the development of the processes to determine the necessary supply of materials

Competences to be achieved when enrolling this course:

- Be able to understand and use the relevant technical vocabulary for production management
- Be able to apply the concepts of „Continuous Improvement Process (CIP/KAIZEN)” and „Lean Management”.
- Be able to understand modular product architecture applied to company’s production process
- Be able to define the transformation process of a products family from integrated to modular architecture
- Be able to identify actions to enhance the role of production department in modules’ definition
- Be able to recognize the principle of project management within the production management’ activities
- Be able to identify the importance of visual planning in production and to apply visual planning techniques to the projects
- Be able to search, locate, utilize the most up to date software available and check compatibility between available software
- Be able to describe the differences between the classic systems of production with the Material Requirement Planning (MRP) System
- Be able to explain and develop the MRP I and MRP II systems, listing the differences between each systems
- Be able to know how to deliver purchase and production orders based on the MRP System
- Be able to plan methodically the tasks to carry out, foreseeing potential difficulties and the way to overcome them
- Be able to describe and explain the basic concepts of production management.
- Be able to explain and describe the logic operation of an MRP I system and develop manufacturing programs analyzing the material requirements.
- Be able to explain and describe the logic operation of an MRP II system and develop manufacturing programs analyzing the capacity needs of manufacturing resources, by establishing the differences between each of the systematics.

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Language: English

Modules of the course:

- Professional technical English (10h)
- Quality and production management: cost reduction (14h)
- Modular product architecture (8h)
 - Visual planning (optional) (7h)
- Software in industry: Web 2.0 (10h)
- Practice of provisioning for production scheduling (12h)

Forms of learning: 100% Distance Learning with synchronous and asynchronous moments

Course duration (months, weeks, hours)

5 months / 20 weeks / 54 hours (+ 7 hours optional)

Calendar

MODULE	HOURS	START DATE	END DATE	H/WEEK (aprox)	Nº WEEK
1. Professional technical English	10	February, 9th	Febr, 27th	3 (+1)	3
2. Quality and production management: cost reduction (AT)	14	March, 2nd	April, 3rd	3	5
3. Modular product architecture (IT)	8	April, 6th	April, 30th	2	4
3.1. Visual planning (optional)	7	April, 6th	April, 30th	2,5	3
4. ICT, Web 2.0. & SW for metal sector	10	May, 4th	May, 29th	2,5	4
5. Practice of provisioning for production scheduling	12	June, 1st	June, 26th	3	4



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