

Organization

■ Organising Institution:

School of Engineering - University of Seville

■ Director of Studies

Dr. Carpóforo Vallellano Martín

Requirements

■ For Admission

Having obtained any of the following degrees in Engineering: Aeronautical, Industrial, Industrial Management, Telecommunications, Naval, Civil or Others. High level of English and Medium-high level of Spanish.

■ For the Master degree

To have one of the above-mentioned degrees and to have successfully completed the Master program and the Final Project.

Number of Credits: 83 ECTS

■ Teaching method: Face-to-face

Dates and fees

- Pre-selection: June - September 2012
 - Enrolment: 1-20 October 2012
 - Course: 15 November 2012 – 31 October 2013
 - Price: 6091 € (incl. tax)
- (Half-grants available for 20% of enrolled students)

Information: e.mail gscaio@us.es or phone +34 954 482175 (Monday to Thursday from 9 to 14h).

Application: Send a CV and photocopy of: Academics Records, ID or Passport, Professional and International experience and other merits to master.gsc&aio@military.airbus.com



EADS

Subject Area:

Engineering & New Technologies

Master in

**GLOBAL SUPPLY CHAIN AND
AERONAUTICAL INDUSTRY OPERATIONS**

Master in GLOBAL SUPPLY CHAIN AND AERONAUTICAL INDUSTRY OPERATIONS

4th Edition. 2012-2013

(Paid Practice)



Objectives

■ To train the participants in specific skills in the business and global supply chain management of the aeronautical industry, as well as in engineering operations, manufacturing, assembly, quality and lean, giving also a characteristic vision about management and operational techniques of the leader company AIRBUS MILITARY (EADS) in Andalusia and Spain.

Competencies

■ To give the participants a general knowledge of related fields within the aeronautical industry organisation, business model and supply chain. To train the participants in general knowledge of the production systems, materials and components for aircraft manufacturing and manufacturing and assembly processes involved in aeronautical production.

Assessment Procedure

■ Examinations, homework, training practice at Airbus and a Master Thesis

Academic Committee

Dr. José David Canca Ortiz.

University of Seville – Industrial Engineering and Management Science.

Dr. Remedios Carmona Rodriguez.

AIRBUS Military - Head of Technological D & I

Mr. Jesús Espinosa Ruiz.

AIRBUS Military – Vice-president of Engineering and Technology Research Production.

Mrs. Beatriz Garcia Fernandez.

AIRBUS Military - HR Lean Manufacturing

Dr. Pedro L. González Rodríguez.

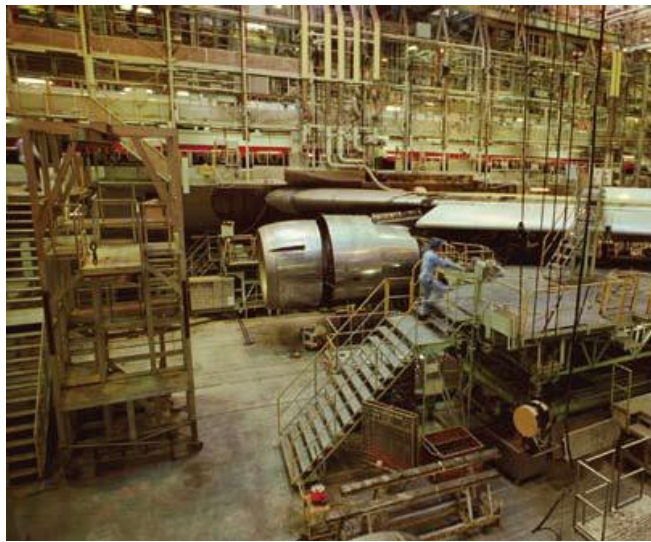
University of Seville -. Industrial Engineering and Management Science

Dr. Federico Paris Carballo.

University of Seville – Continuum Mechanics and Theory of Structures

Dr. Carpóforo Vallellano Martín.

University of Seville – Mechanical and Materials Engineering.



Contents

■Module 1. INTRODUCTION. OVERVIEW OF AERONAUTICAL INDUSTRY (1,20 ECTS)

Master Introduction/ Opening class / Aeronautical environment / Business Model / Legal affairs and Human Resources in the Aerospace Industry

■Module 2. MATERIALS, AIRCRAFT COMPONENTS AND AIRCRAFT SYSTEMS (2,25 ECTS)

Composite Materials in Aircraft Manufacturing / Metal Materials in Aircraft Manufacturing / Aircraft Systems' Integration / Aircraft Structures

■Module 3. PRODUCTION MANAGEMENT AND PLANNING (3,40 ECTS)

Introduction / Planning / Facilities Management / Logistics / Production Planning and Controlling / FAL Planning and Controlling

■Module 4. MANUFACTURING PROCESSES AND OPERATIONS (2,10 ECTS)

Material Removal Processes / Metal Forming Processes / Manufacturing of Composite Parts / Wire Harness Manufacturing and Assembly / Manufacturing Technologies I / Manufacturing Technologies II

■Module 5. QUALITY (2,70 ECTS)

Introduction to Quality / Quality management / Regulations and Certification / Company Quality Systems / Quality in Final Assembly Line (FAL) / Quality in Aero Structures Assembly / Quality in Supply Chain Management

■Module 6. LEAN (1,20 ECTS)

Introduction to Lean Production / Lean in Parts Manufacturing / Lean in Aero Structures Assembly / Lean in Final Assembly Line (FAL)

■Module 7. ASSEMBLY OF AEROSTRUCTURES (1,95 ECTS)

Joining Processes / Aero structures Assembly Engineering / Aero Structures Assembly Production: Planning and Controlling / Aero Structures Assembly Production: Production Organization / Maintenance

■Module 8. ENGINEERING (1,95 ECTS)

Product Lifecycle Management (PLM) / Introduction to CATIA / Tooling / Production Engineering / Engineering Systems

■Module 9. SKILLS (2,50 ECTS)

Effective Communication, Presentations & Meetings / Team Building / Assessment / Negotiation

■Module 10. SUPPLY CHAIN MANAGEMENT (2,10 ECTS)

Introduction to the Global Supply Chain / Global Supply Chain I / Global Supply Chain II / Practical Overview

■Module 11. FINAL ASSEMBLY LINE (FAL) (1,65 ECTS)

Manufacturing and Production on FAL / Manufacturing Engineering and Industrialization on FAL / FAL Logistics / FAL Facilities / Tooling Facilities on FAL / Ground Test System on FAL

■Module 12: TRAINING PRACTICE (52,00 ECTS)

Training practice at AIRBUS MILITARY facilities (paid practice).

■Module 13: MASTER THESIS (8,00 ECTS)