

Configuration management modern approaches based on Airbus example Airplane configuration management

Form: workshop

Objective:

- To get theoretical knowledge and practical experience of configuration management use based on AIRBUS example

Core audience:

- Heads of design companies and bureaus, chief designers, design managers, lead engineers, engineers

The participants will get answers to the following questions:

- What are the goals and objectives of configuration management?
- What kind of advantages can configuration management system provide?
- Which configuration management approaches are used by AIRBUS?

Workshop program

Day 1

Theory

- What is configuration management
- Examples of configuration management use in the different areas of manufacturing industry
- Review of international standards on configuration management
- AIRBUS standards on configuration management
- Basic configuration management sections
- Airplane lifecycle
- Product offer management at the contract level: catalogues and additional options
- Examples of documentation which is used by AIRBUS at the stage of contract preparation.

Practice

Exercises:

- Product description and offer preparation at the contract level
- CA Breakdown.

Day 2

Theory

- Specification creation: preliminary structure and catalogues
- Change process during the product (airplane) lifecycle
- Modifications and their types
- Analysis and change implementation procedures at the stages of project definition study and full-scale engineering development
- Examples of documentation which is used by AIRBUS at the stage of specification
- Design drawing packages structure (AIRBUS Definition Dossier)
- How to get from product specification to drawings packages at the stages of project definition study and full-scale engineering development.

Practice

Exercises:

- Modification description and TRS creation
- Modification area definition based on AIRBUS Aircraft Allocation Table (AAT).

Day 3

Theory

- Product structure update at the transition to full-scale engineering development
- CI-LO-DS concept
- Different combinations of changes and their relations to design documentation packages
- Different stages of changes and their influence to production and certification
- Examples of documentation which is used by AIRBUS when standard specification change is needed.

Practice

Exercises:

- Product structure creation with the further modifications implementation
- CI-LO-DS concept and modification system practical use
- Modification implementation Docflow from the stage of contract preparation to the stage of certification (CR-TRS-TD-MAS).

Day 4

Theory

- Production preparation and start. Production stage docflow
- Airplane production and checks
- Different types of mismatches and the process of processing of them
- Product configuration confirmation and product transfer to customer
- Certification process
- Post production airplane support.