

Specialty Engineering for Product Life Cycle Management Course

Instructor: Mr. David F. Tyler, Advanced Automation Corporation (AAC)

Course Description:

This intensive 3 day Specialty Engineering course is part of WSTIAC's Systems Engineering Course Series and presents a series of designated engineering "disciplines" that are organized around the various design attributes of the system that is under development, through the use of cross function product teams that utilizes the systems engineering process. Specialty Engineering is traditionally associated with the various "ilities" of the system design process such as maintainability, reliability, affordability, supportability, testability, availability, producibility and re-manufacturability. Engineering disciplines for reliability, human factors, maintenance, safety, logistics, training, testing, and manufacturing are integrated with other traditional product design engineering fields such as electrical, mechanical, guidance and aerodynamics to concurrently design, develop, manufacture and deploy affordable systems that are designed to meet customer requirements. A comprehensive overview of concept, theory, definitions, practices, methods, analysis processes, and standards, are structured with real world case study examples.

Topics include:

Specialty Engineering Course Outline – Day 1

- Specialty Engineering Integration and Systems Engineering Process
- Reliability Engineering
- System Life Cycle Reliability Engineering
- Reliability Engineering
- Maintainability Engineering
- Reliability & Maintainability Requirements and Programs
- Testability

Specialty Engineering Course Outline – Day 2

- Human Factors

- Training System
- Supportability Analysis

Specialty Engineering Course Outline – Day 3

- Supportability Analysis & Logistic Element Processes
- Producibility/Remanufacturability
- Design for Manufacturing/Assembly
- Software Engineering

About the Instructor:

Mr. David Tyler is a Senior Acquisition and Systems Engineering expert. He has more than 30 years in the field across a wide range of DoD, DoE, NASA and commercial programs. He has developed systems engineering plans for a wide array of government and commercial organizations. Mr. Tyler has written over 50 papers on these and related topics. He is a member of the Logistics Management Community at DAU.

Security Classification:

The Systems Engineering Series courses are UNCLASSIFIED.

Handout Material:

Each student will receive a comprehensive set of course notes covering the material presented.

For additional information, contact
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<http://wstiac.alionscience.com/training>

Notice: WSTIAC reserves the right to cancel, change the course schedule, and/or instructor if required. In the event of a schedule change or cancellation, the customer will be immediately informed.