

Foundations of the System Engineering and Architecture Frameworks Eğitimi

Süre: 2 Gün

Açıklama

Sistem Mühendisliği Temelleri Eğitimi, sistem vizyonu, gereksinimler ve mimari konularını ele alan 2 günlük bir eğitim programıdır.

Foundations of the System Engineering and Architecture Frameworks programında sistem mühendisliği süreçleri, modelleme ve mimari çerçeveler ele alınır.

Kimler Katılmalı?

Sistem mühendisliği alanına dahil olan herkes: Sistem Mimarlari, Sistem Analistleri, Sistem Mühendisleri,

Tüm Sistem Mühendislerinin kurumsal yaklaşıma bağlı kalmalarından sorumlu olan yöneticiler

Eğitim İçeriği

Introduction

- Objectives of this training/mentoring module,
- Issues in the System Engineering and Model Typologies (AFIS, Incose),
- The System Vision: definitions and characteristics,
- Notions of the System Engineering : view and viewpoint of the standard ISO/IEC/IEEE 42010, principles, process and activities
- Typology of Requirements : business requirements, functional and non functional requirements, user requirements, design and exploitation level requirements

Project Management in the field of System Engineering

- Processes and phases, integrated and simultaneous engineering,,
- System development : generic process, engineering and integration, iteration et recursivity,
- Organisation in the System Engineering Discipline: a collaborative management of the information, language and data

The Engineering Process and Modeling

- Description of the dynamic and static context of the system: entities, flows exchanged, external constraints,
- Modeling in system engineering: Semantic, functional, dynamic, temporal, organic modeling,
- Panorama of representations in SysML,
- Positioning the System Development Cycle in the various state-of-the-art approaches according to ISO / IEC 15288: Harmony, OOSEM, RUP-SE, State Analysis MBSE, Vitech MBSE Initiative,
- Basic process for engineering: requirements gathering- definition of technical requirements analysis, design of functional and organic / physical architectures,
- Verification of the constituents of the system against technical requirements,
- Validation against the allocated requirements and initial requirements for the complete system,
- Evaluation and optimization of architectures

Architecture Frameworks for System Engineering

- DoDAF, MoDAF, NAF
- Aligning the Architecture with Changes
- Tools for the System Engineering
- Expected Functionnalities from the tools ,
- Complementary tools for engineering,
- Presentation of a System Engineering tool,

Conclusion

- Phases of requirements gathering, analysis and design in the system engineering,
- Ensuring traceability between requirements and components of the system,
- Integration and Acceptance tests of the Requiements upon the system architecture

Ön Koşullar

Herhangi bir ön koşul yoktur.