V&V Analyser

Get certification-ready

SCOPE

Critical Software's approach to providing customers with gap analysis audits adopts a rigorous and phased approach, with different activities prescribed at each stage. The objective is to enable the customer to understand the gaps that exist in the implementation of a given project according to the relevant industry certification standards.

KEY ACTIVITIES

Information Gathering

The information gathering phase sets out to obtain all of the relevant information about the project. This includes specific information about the project's implementation, artifacts and processes. It also includes face-to-face interviews to ensure all relevant information is captured."

Gap Analysis

A thorough gap analysis is then performed on the information collected in order to identify gaps in the project's processes. The relevant industry certification standards are used as a reference point for this analysis.

DELIVERABLES

Audit Analysis

Report The gap analysis results are documented in an audit report that is delivered to the customer. Contents include data from the analysis of project artifacts, processes and components, a synthesis of results and recommendations relating to the project as well as a list of open points to address.

Final Presentation

A final presentation will also synthesise the gap analysis audit, highlighting the main recommendations and the open issues identified. There will then be an opportunity to discuss the outcomes of the gap analysis.

RELEVANT INDUSTRIES

Automotive	Industrial	Railway	Medical	Aerospace	Space
IEC 61508 Functional safety of electrical/electronic/programmable electronic safety-related systems			ISO 14971 Medical devices - application of risk management to medical devices	ARP 4761 Guidelines and methods for conducting the safety assessment process on civil airborne systems and equipment	ECSS series Processes for project management, engineering and product assurance in space projects and applications
ISO 26262 Road vehicles - functional safety	IEC 61511 Functional safety - safety instrumented systems for the process industry sector	EN 50126 Railway applications - the specification and demonstration of RAMS	ISO 62304 Medical devices software - software life cycle processes	ARP 4754 Certification considerations for highly-integrated or complex aircraft systems	NASA STD 8719.13B Software safety standard - NASA technical standard
	IEC 62061 Safety of machinery - functional safety of electrical, electronic and programmable electronic control systems	EN 50128 Railway applications - communications, signalling and processing systems -software for railway control protection systems		DO-178B Software considerations in airborne systems and equipment certification	
		EN 50129 Railway applications - communications, signalling and processing systems - safety-related electronic systems for signalling		DO-254 Design assurance guidance for airborne electronic hardware	

LOCATION
Worldwide

DURATION
2 weeks

CONSULTANT
A Critical Software certification expert

Critical software

ABOUT CRITICAL SOFTWARE

Critical Software provides systems and software services for safety, mission and business-critical applications. We work closely with our clients, helping them to meet the most demanding standards for performance and reliability.

We were founded in 1998, with NASA our very first client. Today, we work across many international industries and have offices across the globe.

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We are CMMI Maturity Level 5 rated.
For a list of our certifications & standards visit our website.