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Title of the presentation /Tutorial

Six sigma in software process

Speaker(s)

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Category

- Getting Started Intermediate High Maturity
 Presentation Tutorial
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Target Audience

- Senior Management IT Managers
 Project Leaders SEPG Leaders
 Practitioners Others:
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Key Words

Six sigma, Non Conformity(NC), Process improvement, SPICE,

Abstract (maximum 250 Words)

In Johnson Controls Automotive Experience we apply several methods for process improvement. Combining some of them is a powerful method with relatively easy to evaluate effort saving. A case study we've chosen to start with is a Six Sigma project in the Process deployment area.

Six sigma is a philosophy for process improvement. It uses different methods to transform practical problem to statistical one's and then to solve them with statistical tools. After that statistical decision is transformed to practical.

The standard Software Development processes in the Electronics Division of the company are SPICE compliant. We ensure the SPICE compliance of our processes by conducting periodical Audits of software development teams. The audits are based on standardized statements. Each statement which is "broken" creates a non conformity.

A Six sigma project has been started in order to investigate the main reasons for appearance of non conformities. Generic Six sigma methods are used to identify the main road blockers for process compliance. After root cause analysis of the road blockers the process has been changed to ensure efficiency and quality of work products.

The results we have are definition of development goals for the target teams and several actions for process improvement both for process definition and process deployment.

The first target we have is to increase the quality of process application with 30% for one year. Our second target is to continuously monitor the broken process statements and to ensure an on time reaction.

CV (200 words)

Georgi Borisov Tsonev

Measurement & Analysis expert at Johnson Controls Automotive Experience

Responsible for Measurement Analysis process.

Develop organizational and project level measurement documents, as well as data collection and analysis processes.

Create periodic measurement reports and brief results to all management levels.

Work on Six sigma projects.

Initiate and participate in process improvement trainings.

Production efficiency engineer- Six Sigma at Ideal Standard Vidima

Create and manage six sigma projects, make statistical models to solve the problems, prepare six sigma education, link the six sigma tools to real situation and technical decision

Photo



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