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**When**

Wednesday April 17<sup>th</sup> 2019 from 11am-12pm EDT (3pm – 4pm UTC)

**Topic**

Systems Engineering Concepts and Their Relationship to First Time Quality

**Speaker**

April King



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## Abstract

The underlying goal of Systems Engineering is to promote First Time Quality of all of our products; as obvious as this sounds, we never hear it – time for awareness! Managers who lack this basic concept can learn and add value to their programs with some basic training. My background in Quality Engineering focused on the Cost of Quality and Systems Engineering lends itself to a focus on this relationship. In this presentation I will delve into this relationship between Systems Engineering processes and how they promote first time quality. In addition, I will focus on how these concepts reduce rework throughout the development lifecycle and save the company money. My presentation will focus on the three main areas which make up the “Total Quality Costs”, “prevention”, “detection” and “failure”, with failure being subdivided into “internal” and “external”.

I will take the processes that make up the Systems developmental “V” and show how they contribute to the reduction of rework costs and promote first time quality.

## Biography

April King is a Systems Engineer at AS MAS, Melbourne. She has been with Northrop Grumman as both a Consultant and employee since 1989. The first 15 of those years were spent in Quality Operations as both an Analyst and Engineer, and the past 15 years in Systems Engineering. April is a contributing author to the Principles of Quality Cost, 3rd Edition from Quality Press. April holds a BS degree in Management of Technical Operations and an MS in Aeronautical Science, with specializations in Management and Human Factors, from Embry Riddle Aeronautical University and a second Masters in Systems Engineering from Florida Institute of Technology (FIT). April is very active in the Space Coast chapter of Society of Women Engineers (SWE), Big Brother Big Sister of Central Florida, and the local American Cancer Society. She is the Sector Vice President of Northrop Grumman Women International Network (GNWIN) ERG and also coordinates the GNWIN STEM Outreach activities for Melbourne.

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Regards,

Andy Pickard  
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