

## ASQ Inspection Division Webinar

### Accelerator-Based, Large Format Computed Tomography for Industrial Parts

This webinar session will inform attendees on how Industrial computed tomography (CT) is an x-ray imaging technology ideal for internal inspection of complex parts. As a non-destructive testing method (NDT) that provides non-contact inspection, CT is primed to meet the challenges of part inspection. This presentation will discuss high-energy CT using a linear accelerator, which has yielded a significant reduction in inspection time for larger parts and cleaner imaging of internal components. This translates to savings in cost and time as well as improved quality management and part development for additive manufacturing. This presentation will also cover the types of analyses available with high-energy CT scanning. These include dimensional metrology for complex geometries and part-to-CAD/part-to-part comparisons as well as accurate data for failure analysis, assembly verification, and identification of defects like porosity and residual powders. CT data can also be useful for optimizing the additive manufacturing process, including validation of 3D printed test bars and pre-production inspection for First Article Inspection (FAI) reporting to satisfy PPAP and AS9102 requirements.

#### The Discussion:

- Recognize the advantages of high energy computed tomography (CT) for inspection of parts including AM/3D printed parts.
- Describe the types of analyses available with high energy computed tomography (CT) for parts including AM/3D printed parts.
- Gain an understanding of the inspection process with high energy industrial computed tomography (CT).

### Presenter: Andrew Good

#### Technology Manager at Jesse Garant Metrology Center

Andrew Good is the Technology Manager and head of the Computed Tomography department at Jesse Garant Metrology Center, a globally recognized part inspection company, providing NDT and metrology services using advanced imaging equipment. He's an active member of CINDE, ASNT, and ASME, as well as participating in several committees overseeing the establishment of standards in Industrial Computed Tomography. He has contributed articles for Quality magazine including: How Industrial CT Supports GD&T, Moldmaking Technology: Inspecting Highly Complex EDM Projects with Industrial CT Scanning, and for GrabCAD: Industrial computed tomography – 3D printing's biggest ally. Andrew is a graduate of the University of Windsor with Honors in Software Engineering

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**Date:** Tuesday, June 12<sup>th</sup>, 2018

**Time:** 2:00 PM ET/ 1:00 PM CT/ 12:00 PM MT/ 11:00 AM PT

**Duration:** 60 minutes

**0.1 RUs will be awarded to attendees.**