What is NASA Academy of Aerospace Quality (AAQ)?

The NASA Academy of Aerospace Quality (AAQ) is an online platform for quality assurance training for academics, students, and commercial space service providers involved in aerospace research, technology development, and payload design, development, and deployment.

The Academy, through its open access website, provides special content for Atmospheric Balloons, Cubesat and other Small-Satellites types of projects.

Before you Start:
- NASA's Quality Program
- Systems Engineering
- Configuration Management
- Documentation Management
- Standards ISO9001/AS9100/AS9003

Material Control:
- Control of Foreign Object Debris (FOD)
- Electrostatic Discharge
- Fracture Critical
- Cleanliness / Contaminant

Design:
- Failure Mode and Effects Analysis
- Continuous Improvement
- Problem Solving
- hazard Analysis

Implementation:
- Part Selection, purchasing and Procurement:
  - Supplier Audit
  - Acceptance Data Package
  - Commercial Off-the-Shelf (COTS)
  - Plastic Encapsulated Microcircuits (PEMs)
  - Micro-Electrical-Mechanical Parts (MEMs)
- Part Assembly:
  - Soldering
  - Wire Crimping and Harness
  - Stacking, Bonding and Conformal Coating
- Connectors
- Fasteners
- Safety
- Flammability
- Process Control
- Calibration

Testing:
- Inspection and Testing
  - Non-Destructive Evaluation (NDE)
  - Laboratory Testing
- Statistical Quality Control
  - Mechanical Properties
  - Chemical Composition
  - Metrology
  - Regression Analysis
  - Inferential Statistics
  - Statistics with Excel
- Design and Analysis of Experiments (DOE)
- Control Charts and Process Capability

Learn from Others
You can learn from the experiences of other Cubesat community members through case studies, forums and over 200 lessons learned taken directly from NASA's lessons learned databases.

Join our community of users and share your experiences in our Annual Workshop.

Contact Us!
We are constantly looking for feedback on the usability of our site. If you have any questions or suggestions, feel free to contact us!

Access to NASA Standards
Search and query over 350 NASA standards that might be relevant to your project using our NASA Standard Search App.

Plan and Repository
A quality assurance plan allows your team to document the best practices that will be put in place to assure the quality (and success) of your project. Using our site you can create a plan.

Use one of our Expert-Designed templates!

Start using our Open Access Online Platform with your Project:
http://aaq.auburn.edu
aaq@auburn.edu

Useful Links:
- Access to NASA Standards
- Plan and Repository

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