WHMA
Wiring Harness Manufacturer's Association

IPC
BUILD ELECTRONICS BETTER

Validating Continual Improvement

Presenters: Scott Morris– MarVac
Randy Cherry– IPC/WHMA

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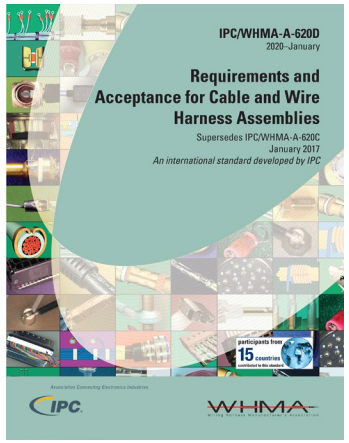
ipc.org

IPC Validation Services – What is it?

- IPC VS is composed of three programs:
  - QML/QPL Certifications
    - This 3-year certification highlights the commitment to quality and adherence to IPC standards. It recognizes products and assembly processes that have demonstrated compliance with IPC standards and industry best practices.
      - Certifications include:
        - **IPC/WHMAA-620** **(Cable & Wire Harness)**
        - IPC-1791 (Trusted Supplier)
        - J-STD-001/IPC-A-610 (Soldering)
        - J-STD-001 Space/Military addendum
        - IPC-6012/600 (Printed Board Fabrication)
        - IPC-4101/4103 (Laminates)



  - Standards Gap Analysis (SGA)
    - Identify gaps between current practices and IPC standards. Often a preliminary step to the QML/QPL Certification process.
  - Technology Solutions
    - Support service to solve challenges in the manufacturing processes.
    - Focus on PCB Assembly, PCB Fabrication, Cable & Wire Harness Assembly, and Supplier performance issues.

IPC Validation Services - Why?

- IPC industry members asked IPC to create a department (Validation Services) to develop programs that verify companies can manufacture, assemble, and supply in accordance with IPC standards.
- The focus was on products and processes that demand high reliability.
- The goal is to build a **Network of Trusted Suppliers** in the electronic supply chain.
- Who do we target?
  - OEM's
  - EMS organizations
  - Suppliers
- What are some of the benefits?
  - Enhanced Process Efficiency (Improved Process Yields)
  - Cost Reduction & Avoidance
  - Reduce Defects, Scrap, and Rework
  - Resolve Supplier Quality Issues
  - Determine Alignment to IPC Standards
  - Marketing Advantage Over the Competition
- VS web site: https://ipcvalidation.org/

IPC Validation Services

IPC/WHMA-A-620 QML Process

- Determine Scope of Work and Customer Requirement
  - Class 1, 2, or 3 site audit
  - Is a SGA needed?
- Provide a Quote
- Complete IPC NDA and Manufacturers Agreement contract
- Complete IPC Pre-Assessment Audit Checklist
  - Review the pre-assessment with the customer
- Schedule On-Site Audit
  - Typically 2 – 3 days
- Customer Passes or Completes Corrective Actions
  - Certificate is granted
- IPC Marketing / Press Release / VS Web Site
- Annual Assessments for Year One and Year Two
- Re-Certification after Three Years

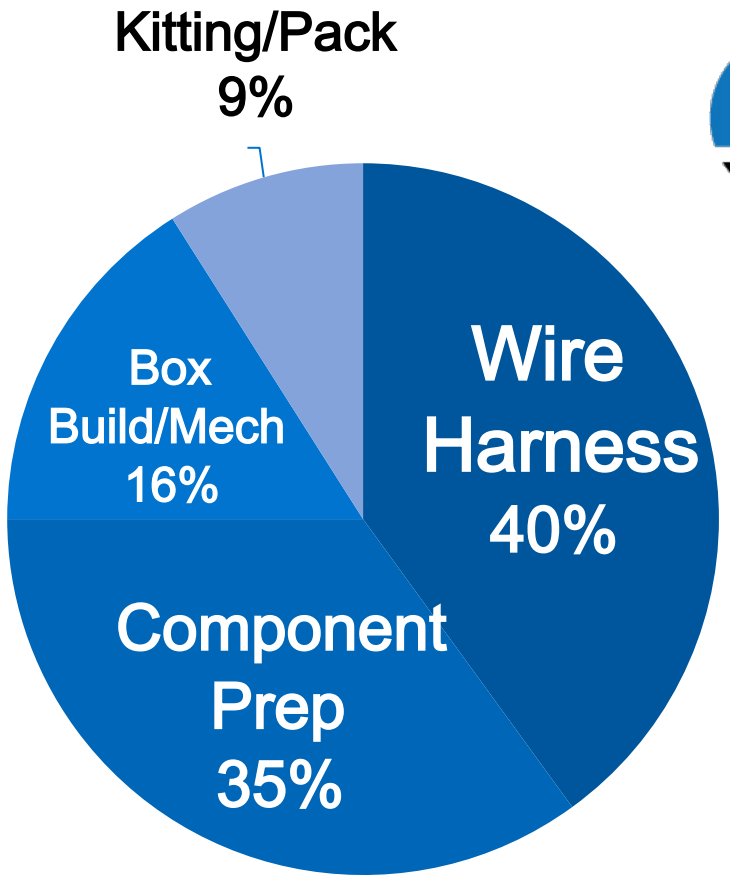
IPC Validation Services & MarVac

- How did it all begin?
- I would like to introduce Scott Morris – Regional Support Assembly Specialist

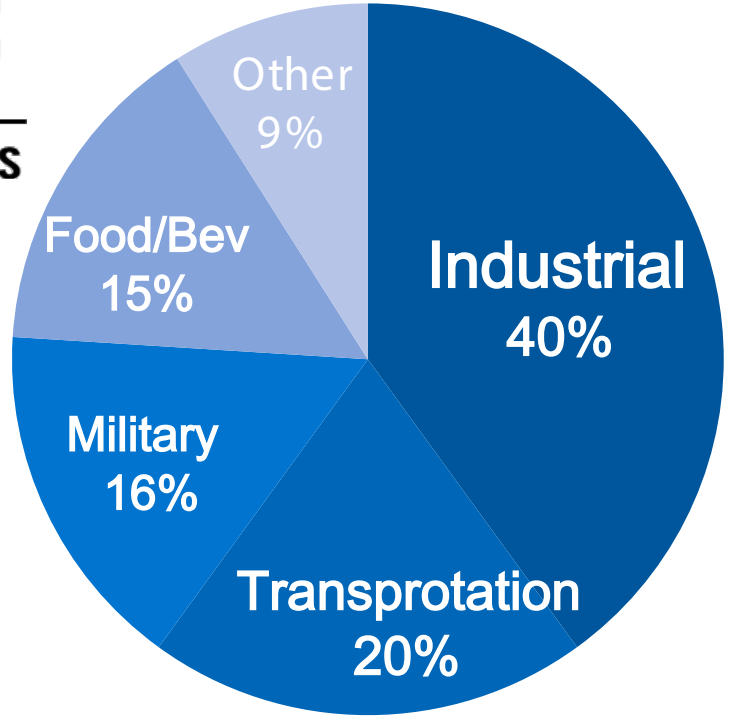
MARSH
Electronics, Inc.

MarVac
ASSEMBLIES

Markets & Products



MarVac ASSEMBLIES



Continual Improvement

IPC Validation Services RECOGNIZED

- IPC QML for A-620
- UL Recognized Wire Processor
- UL Recognized Wire Re-Spooler
- ISO 9001-2015
- CMMC Endeavor Started
- QRM initiatives

Why SGA and Validation A-620?

MarVac ASSEMBLIES

- Marketing Efforts
- 3rd Party Verification
- Leads
- Cost of Quality
- Education of Line Associates
- **We did it for Ourselves**

Contact Information

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IPC Validation Services RECOGNIZED

CERTIFIED ISO 9001:2015 COMPANY

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IPC Validation Services

Questions or Comments

Thank You For Your Time!