

How Limited Energy Can Benefit Your Business



PRESENTED BY
DAVID J NUTTER ESC-D



INDEPENDENT ELECTRICAL CONTRACTORS



David J Nutter ESC-D

**PRESIDENT
Electro Arts Enterprises, Inc.**

ELECTRONIC SYSTEMS CERTIFIED
DESIGNER
Simplified Electronic Lifestyles®

INDEPENDENT ELECTRICAL CONTRACTORS

David J Nutter ESC-D

Personal Profile



- Licensed Master Electrician Since 1985
- Founded Electro Arts Enterprises Inc, an Electrical Contracting Firm, in 1985
- Created Limited Energy (High End Residential A/V) Division in 1999
- Founding Board Member IEC Florida East Coast Chapter
- Chairperson IEC Florida East Coast Chapter Apprenticeship and Training Committee
- Limited Energy Apprenticeship Instructor for IEC Florida East Coast Chapter
- Voting Member IEC National Apprenticeship and Training Committee
- Chair IEC National Limited Energy Task Force Group
- SME (Subject Matter Expert) for IEC National Limited Energy Task Force Curriculum
- CEDIA (Custom Electronics Design and Installation Association) Certified Outreach Instructor (COI)
- CEDIA Electronics Systems Certified Designer



IEC

INDEPENDENT ELECTRICAL CONTRACTORS

David J Nutter ESC-D

MEMBER IN GOOD STANDING

- IEC National
- IEC-FECC
 - CEDIA
 - IAEI
 - NFPA
 - AIA
 - AIBD
 - NKBA
 - AVIXA



IEC

INDEPENDENT ELECTRICAL CONTRACTORS

How Limited Energy Can Benefit Your Business

KEY TOPICS

- Limited Energy vs Low Voltage
- Limited Energy Special Systems
- Limited Energy Earning Potential
- Opportunities/Risks of Limited Energy
 - Tools and Equipment Needed
- IEC Curriculum Available and Options
 - Additional Opportunities Available



Limited Energy

VS

Low Voltage

Definition of Low Voltage in NEC:

Not really defined

Very limited and creates confusion

However, Limited Energy is defined

Class 2 and Class 3

How Limited Energy
Can Benefit Your
Business



Limited Energy Special Systems

How Limited Energy
Can Benefit Your
Business

- Structured Wiring Systems
- Surveillance Systems (CCTV)
 - Fire Alarm
 - PoE Lighting
- Audio and Sound Systems
- BMS and Control Systems
- Lighting Control Systems
 - Automation Systems



Limited Energy Earning Potential

How Limited Energy
Can Benefit Your
Business

- Aggressive labor rates
- Aggressive mark-up on product
- Specialty services labor rates



Opportunities / Risks of Limited Energy

Opportunities

- Capture markets previously unavailable
- High earning potential

Risks

- Technology requires devotion
 - Mistakes are costly
 - Training is essential

How Limited Energy
Can Benefit Your
Business



Tools and Equipment Needed

How Limited Energy
Can Benefit Your
Business

- Special tools will be required
- Training for proper use is a must
- Training from IEC helps provide this

How Limited Energy
Can Benefit Your
Business

IEC
Curriculum
Available and
Options

Courses Available Now

- Introduction to Limited Energy
 - Structured Cabling
 - Fire Alarm
 - PoE Lighting
 - Surveillance Systems

How Limited Energy
Can Benefit Your
Business

IEC
Curriculum
Available and
Options

Courses Coming Soon

- Audio and Sound Systems
- Commercial Control Systems

Additional Specialty Opportunities Available

How Limited Energy
Can Benefit Your
Business

- Networking / IT
 - Programing
- Design Services
 - Consulting
- Power Systems

Open Discussion

Questions and Answers

How Limited Energy
Can Benefit Your
Business

