RETROFITS
Comprehensive
Support · Sell · Select · Design · Install
MALCTP Mission
Michigan Advanced Lighting Controls Training Program
ALC
Energy Independence
Standards
Lack of Training
Environment
Codes
Cost
Peak Demand

FROM MY
COLD DEAD
HANDS!

Michigan Advanced Lighting Controls Training Program

ALC

Training Electricians and Contractors
on Advanced Lighting Controls

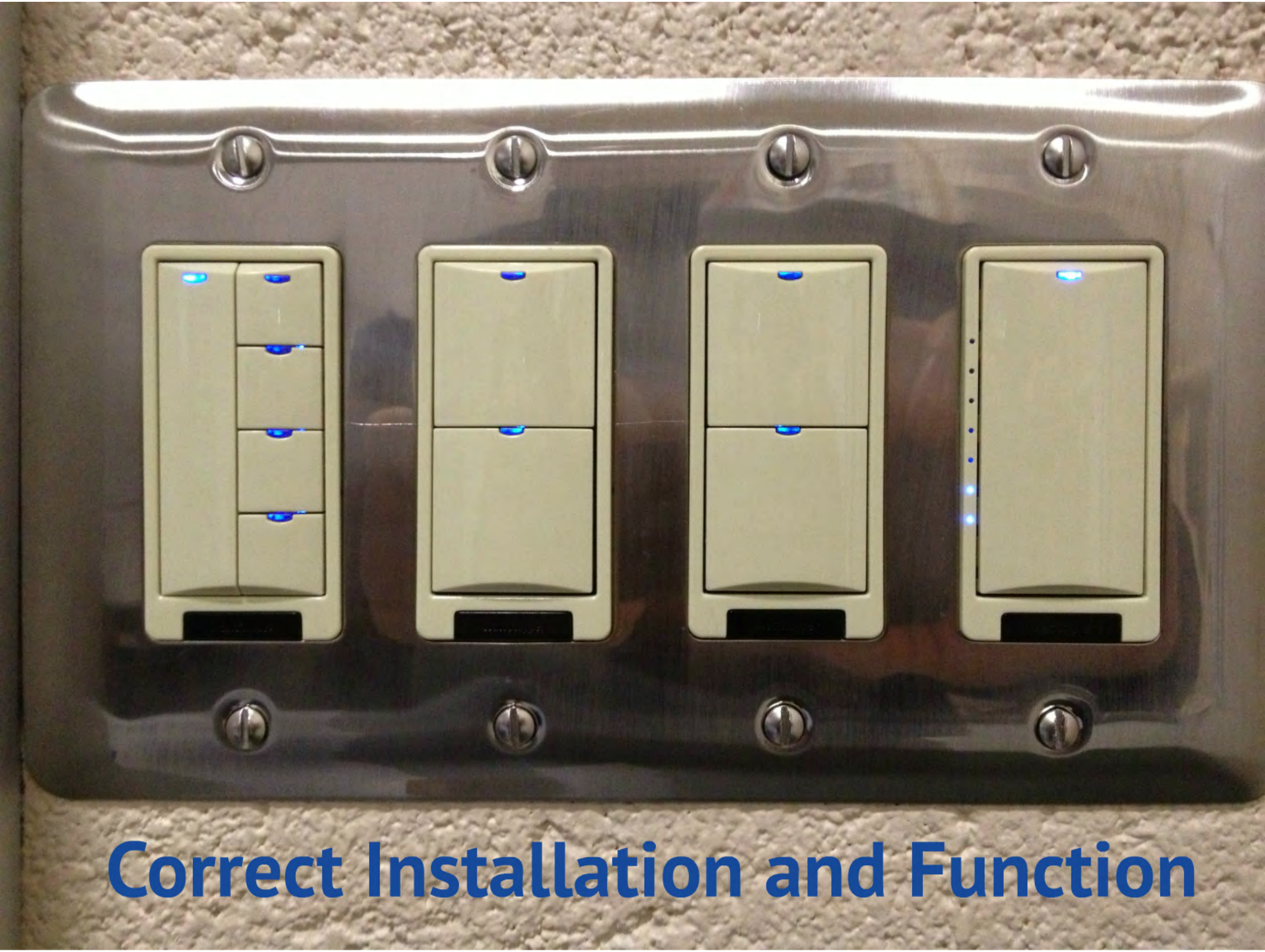
Training Electricians and Contractors on Advanced Lighting Controls

Sell · Select · Design · Install · Support

MALCTP Mission

Energy Efficient

Cost Effective



Correct Installation and Function

Improved Lighting Quality

Increased Opportunities

RETROFITS

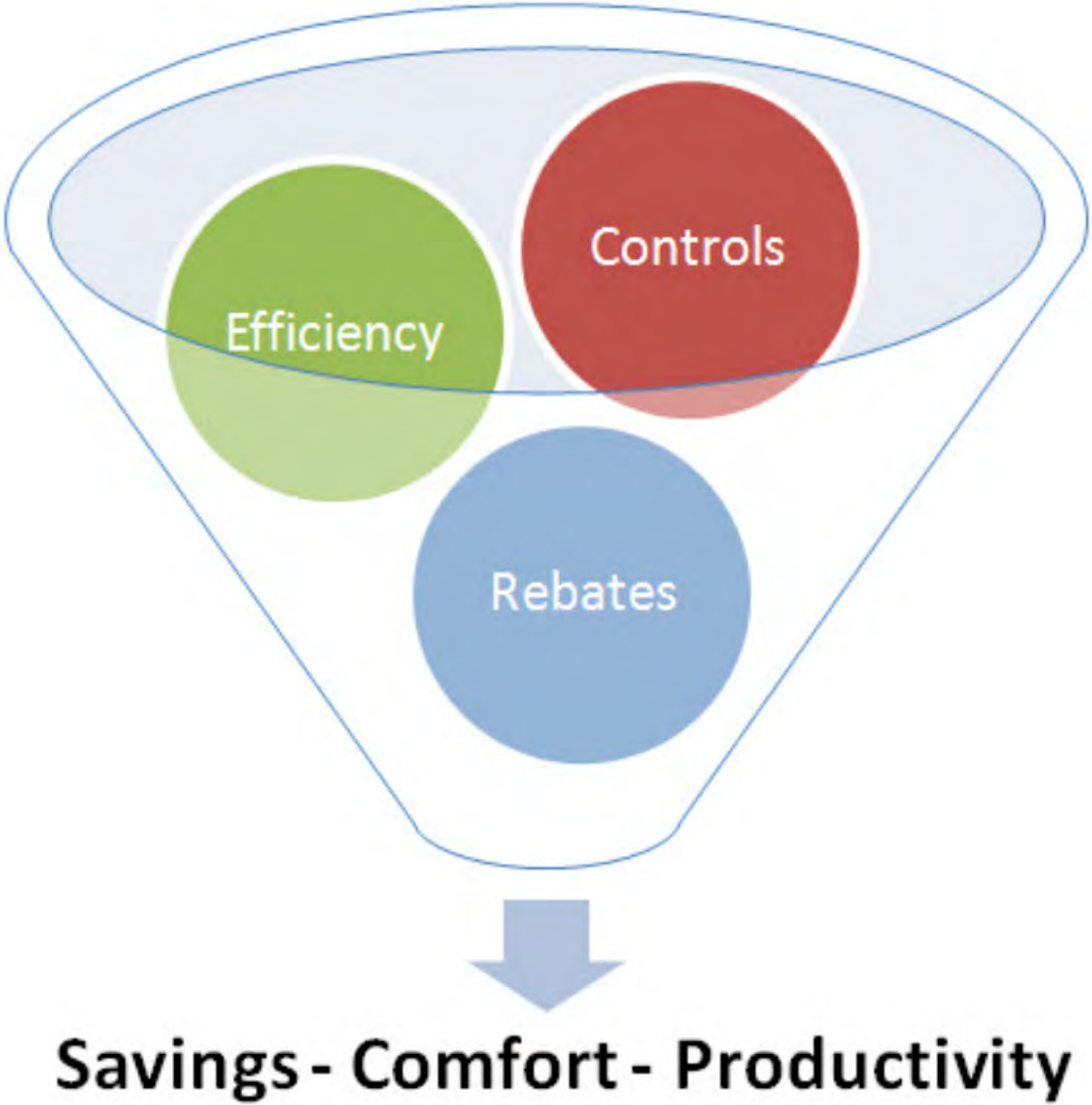
Lighting
40%

50-85%
Savings

80+% not fully
functional

4.9M Commercial Buildings
72B Square Feet
GO BY TRAIN
UNION STATION
500k Federal Buildings
3.1B Square Feet
Outdoor
Indoor

Outdoor
Indoor

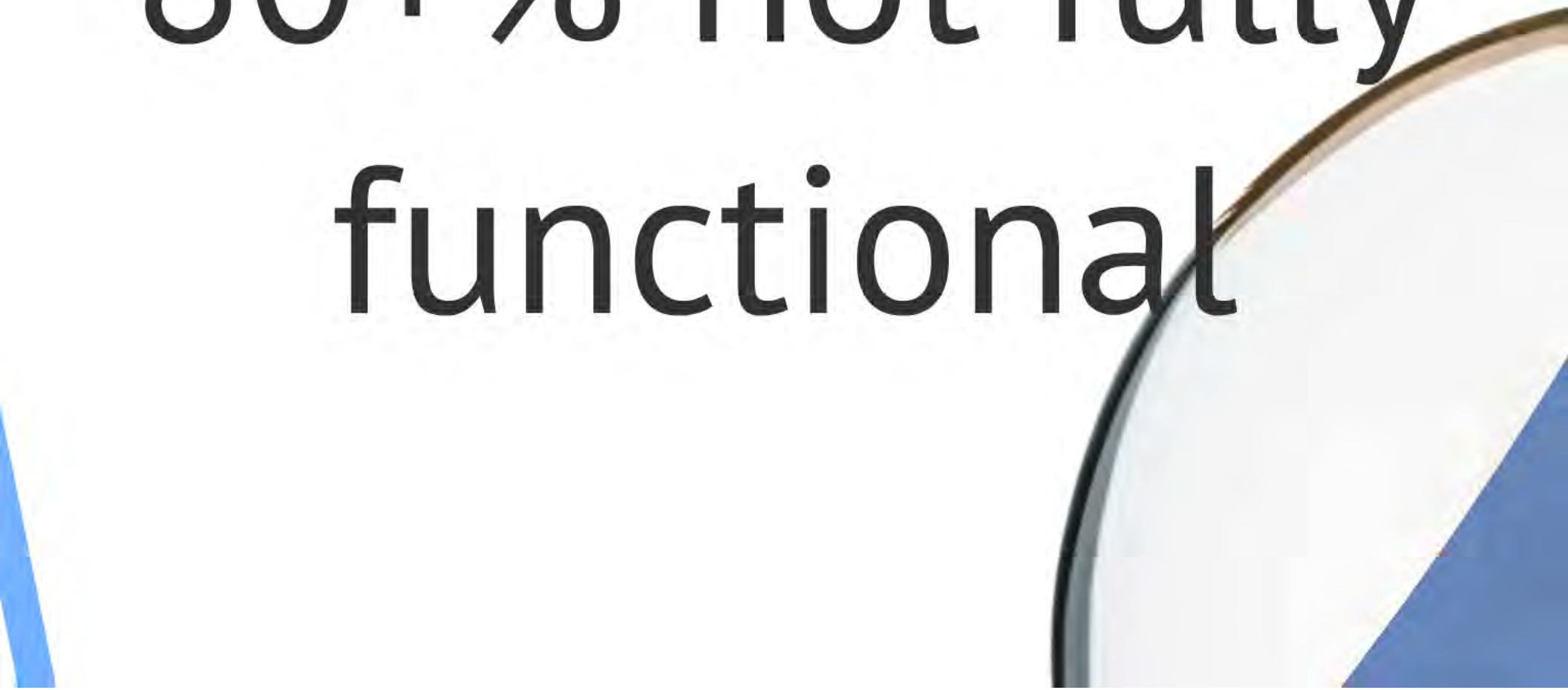

Controls
Efficiency
Rebates
Savings - Comfort - Productivity

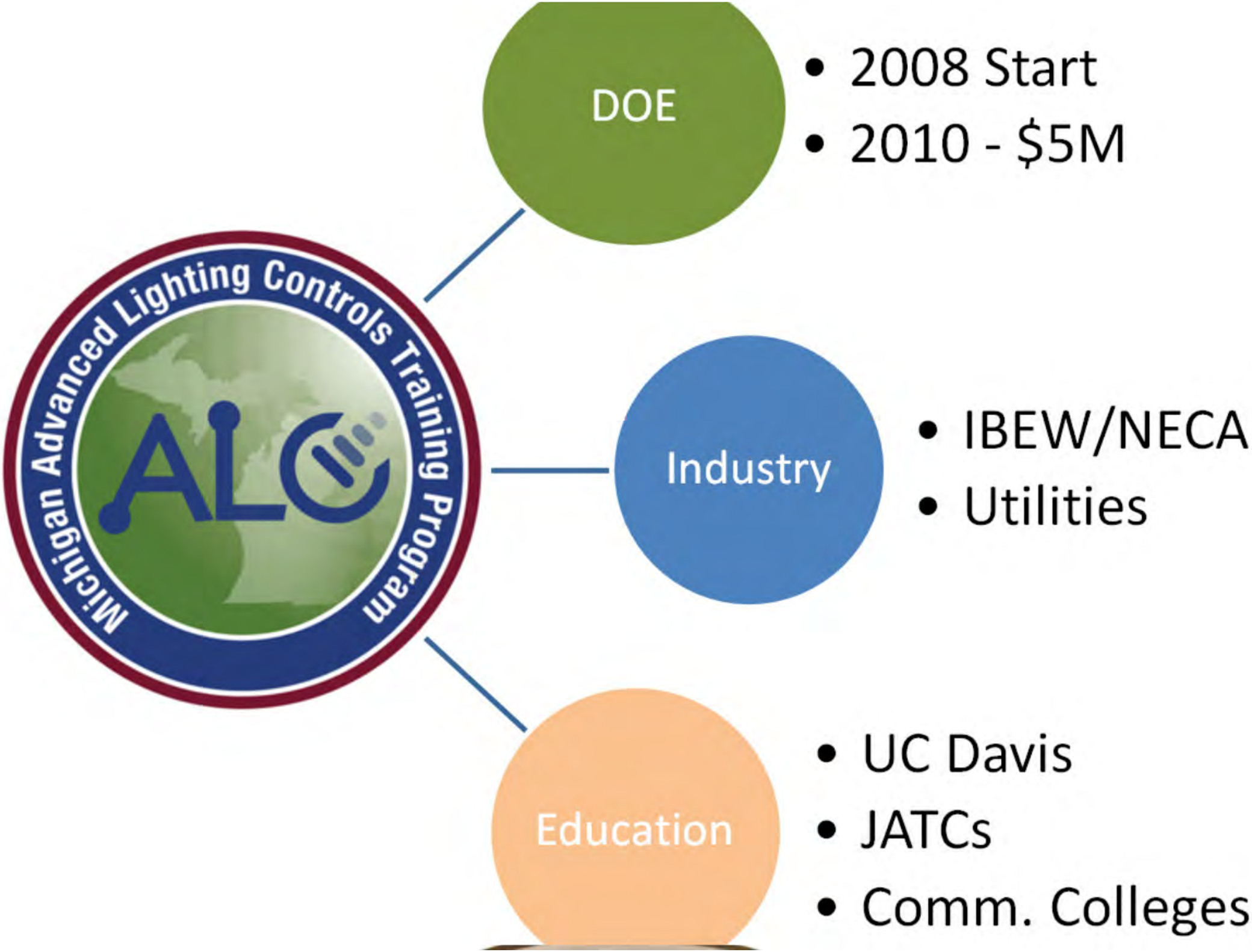
Lighting

40%

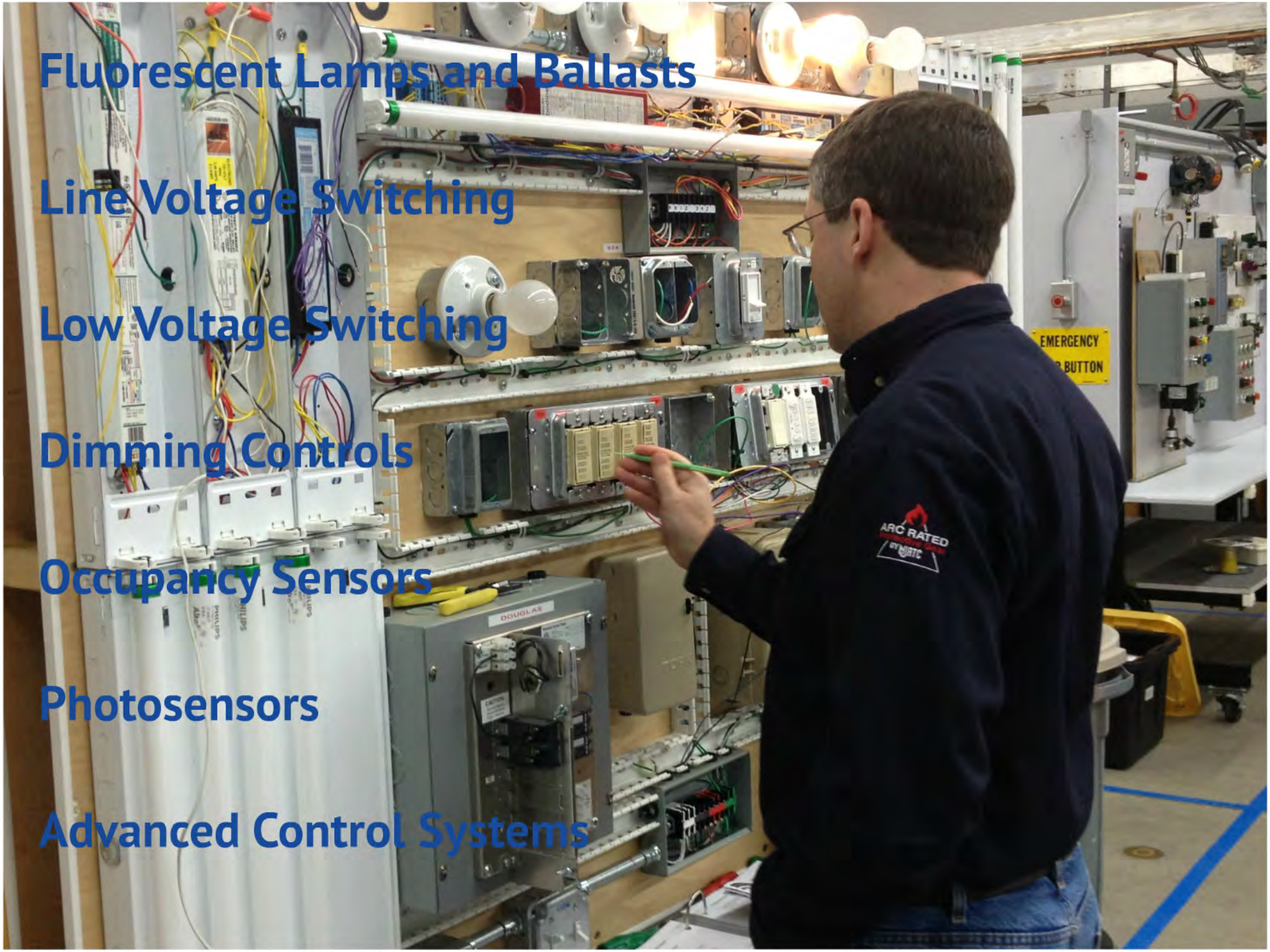
50-85% Savings

80+% not fully functional




Michigan Advanced Lighting Controls Training Program
ALC
DOE
• 2008 Start
• 2010 - $5M
Industry
• IBEW/NECA
• Utilities
Education
• UC Davis
• JATCs
• Comm. Colleges

Comprehensive



Fluorescent Lamps and Ballasts

Line Voltage Switching

Low Voltage Switching

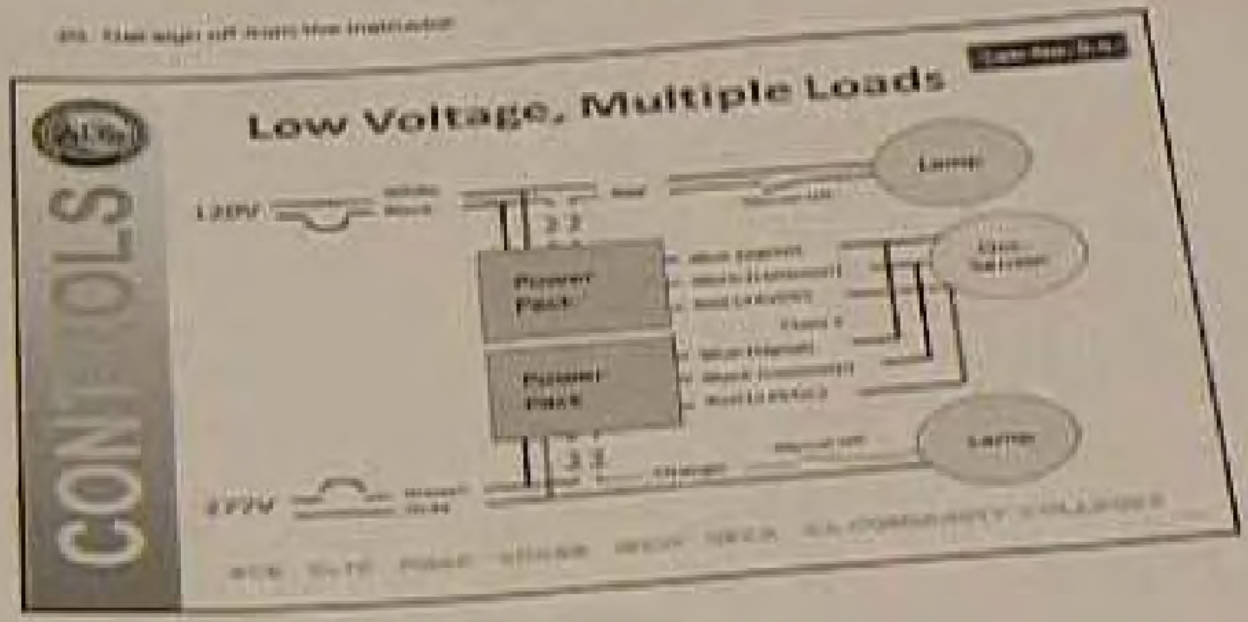
Dimming Controls

Occupancy Sensors

Photosensors

Advanced Control Systems

Step 5: Use sign off from the instructor



Lab 5.5 Results: Completed _____

Lab 5.5 Reset Dials and Switches: Completed _____

Lab 5: Clean Up: All materials have been returned, lab board is clear and work area is clean _____

6

7

8

Energy Independence

Standards

Environment

Lack of Training

Cost

Codes

Peak Demand

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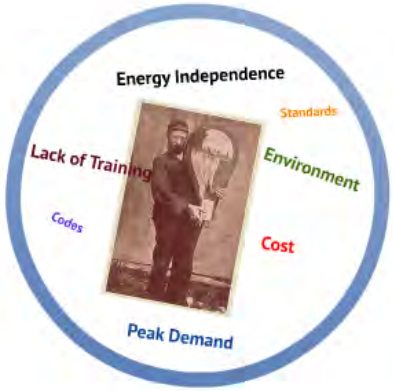
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