

# The Connected Home

*Readily understood by everyone in this non-technical course*

## 1. Life in Today's Digital World

- Systems in the Home
- Benefits of Digital Living

## 2. The Internet of Things

- IoT by the Numbers
- Connected Devices and Products
- Opportunities and the future

## 3. Industry Players and Stakeholders

- ESC, Electronic System Contractor
- Planning Tools and Industry Associations

## 4. Making It Happen

- Single, Packaged and Custom Solutions
- Design, Planning, Installation and Pricing

## 5. Structured Wiring & Communications

- Cabling and Components
- Communication Options and VoIP
- A Day in the Life . . .

## 6. Home Networking

- Internet Connection Options and Path
- Devices, Protocols and IP Addresses
- LAN, WAN, MAC and DHCP
- A Day in the Life . . .

## 7. Entertainment

- Audio / Video Components
- Digital Media, Storage and Streaming
- A Day in the Life . . .

## 8. Lighting Control

- Wiring, Fixtures and Lamps
- Control Technologies and Options
- A Day in the Life . . .

## 9. Environment and Energy Management

- Measurement and Control Devices
- A Day in the Life . . .

## 10. Security, Health, and Safety

- Security System Devices and Considerations
- Surveillance and Considerations
- Access Control and Considerations
- A Day in the Life . . .

## 11. Power Quality and Other Systems

- Surge Protection and Power Conditioning
- Motorized Window Treatments
- A Day in the Life . . .

## 12. Integrated Home Control

- Components and Control Options
- Control and User Interfaces
- Day in the Life . . .

## 13. Industry Trends and Insights

- Technology Adoption
- RMR, Recurring Monthly Revenue
- Migration to the "Cloud"

## 14. Course Summary

## 15. FINAL TEST

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## DESCRIPTION

This engaging introduction to the digital home is designed for anyone new to the industry or interested in the growing market opportunities. Students learn about systems, capabilities, benefits, and technical infrastructure that deliver integration of products and services. Gain an explanation and appreciation of the Internet of Things in this easy-to-understand orientation to the industry and innovations changing the way we live, work, and play, as well as a glimpse into the future.

## OBJECTIVES

- Share the dramatic changes with the connected world
- Explain the IoT, Internet of Things
- Identify home technology categories / systems and share the benefits they each provide
- Explain integration of home systems
- Describe incorporating technologies into a home
- List the players in the home technology industry
- Identify responsibilities of players and stakeholders

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