



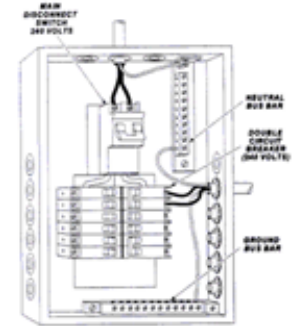
# NIDA SPECIFICATIONS



## RESIDENTIAL WIRING

### General Description

The Nida Residential Wiring Program is specifically designed to prepare entry-level technicians to install, troubleshoot and repair electrical circuits found in today's residential buildings. From understanding blueprints to wiring a Smart House system, the Nida Residential Wiring Program takes the student through the concepts and principles of power distribution, circuit loading, illumination, wiring practices and safety. New construction and the renovation of older homes require electricians with a solid knowledge of electrical principles and the ability to perform troubleshooting and repairs on increasingly more complex residential circuitry.



### Topics

#### Introduction

- Electrical Supply Systems and Installations
- Electrical Symbols and Conductors
- Electrical Wiring Systems and Boxes
- Electrical Switches, Interrupters, and Suppressors
- Recessed Lighting and Ballast
- Branch Circuits and Conductor Sizing

#### Room Branch Circuits

- Bedroom and Master Bedroom Circuits
- Bathroom, Hallway, Front Porch and Entry Circuits
- Kitchen, Dining, and Living Room Circuits
- Laundry, Study, Rear Entry and Attic Circuits
- Family Room and Garage Circuits
- Workshop and Basement Circuits

#### Special Purpose Branch Circuits

- Water Pump and Water Heater
- Large Kitchen Appliances
- Ventilation Fans
- Hydro-massage Tubs
- Electric Heating and Air Conditioning
- Oil and Gas Heating
- Heat/Smoke Detectors
- Television and Telephone Systems
- Service Entrance Equipment and Calculations
- Swimming Pools and Spas
- Smart House Wiring and Remote Control Systems

Residential-0503

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