

Summer Youth Trades Program Curriculum

Schedule: Tuesday - Thursday, 10 AM - 12 PM Duration: 6 Weeks (3 Days per Week, 2 Hours per Session)

Total Sessions: 18 Target Audience: Students interested in **Construction, Electrical & HVAC** careers.

Week 1: Basic Electrical Wiring

- Day 1: Introduction to electrical systems and safety precautions
- Day 2: Hands-on practice with wiring circuits and outlets
- Day 3: Troubleshooting basic electrical issues

Week 2: Diagnostic Checks for Equipment

- Day 4: Understanding diagnostic tools and equipment function
- Day 5: Hands-on practice with multimeters and voltage testers
- Day 6: Identifying common equipment failures and solutions

Week 3: Introduction to Hand and Power Tools

- Day 7: Overview of hand tools (wrenches, screwdrivers, pliers, etc.)
- Day 8: Safe operation of power tools (drills, saws, grinders, etc.)
- Day 9: Hands-on practice with tool selection and application

Week 4: Workplace Safety and Hazard Recognition

- Day 10: OSHA guidelines and workplace safety best practices
- Day 11: Identifying and mitigating common job site hazards
- Day 12: Proper use of personal protective equipment (PPE)

Week 5: Blueprint Reading and Measurements

- Day 13: Introduction to reading blueprints and schematics
- Day 14: Measuring and marking materials accurately
- Day 15: Hands-on project applying measurement and blueprint reading

Week 6: HVAC Basics and Maintenance

- Day 16: Understanding HVAC systems and components
- Day 17: Routine HVAC maintenance and troubleshooting
- Day 18: Hands-on practice with HVAC tools and minor repairs

