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| Company  Logo | **Job Safety Analysis (JSA) for Electrical Work** | Project.  Rev: 00  Date: |

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| PPE’s Required: Safety helmet, Safety Shoes, gloves, Coverall, Goggles, Dust Mask, Jackets Ear Plug, and Full Body Safety Harness. | |
| Date: | Prepared by: |

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| Job: CIVIL ACTIVITIES | JSA: |

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| Task/Activity | Hazards | Control Measures | Responsible Person | Risk Rating |
| Planning and Preparation | Lack of awareness of hazards, improper planning | Conduct a pre-job briefing, ensure workers have the necessary training, review site-specific hazards | Supervisor | Medium |
| Inspection of Tools and PPE | Damaged tools, improper PPE, insufficient safety equipment | Inspect all tools and PPE for damage, use insulated tools, ensure proper fit and functionality of PPE | Electrician | Medium |
| Lockout/Tagout (LOTO) Process | |  | | --- | | Accidental energization of circuits | | |  | | --- | | Follow proper LOTO procedures, use appropriate locks and tags, verify de-energization before starting work | | |  | | --- | | Supervisor/Electrician | | |  | | --- | | High | |
| Testing for Live Circuits | Electric shock, arc flash | Use approved voltage testers, wear arc-rated PPE, maintain safe distances from live parts | Electrician | High |
| Working on Energized Circuits | Electric shock, burns, arc flash | Avoid working on energized systems unless absolutely necessary, implement strict controls (e.g., permits, insulated tools, barriers), wear arc-rated PPE | Supervisor/Electrician | High |
| Working at Heights (e.g., wiring) | Falls, dropped tools, improper use of ladders/scaffolds | Use fall protection equipment, inspect ladders and scaffolds before use, secure tools to prevent dropping | Electrician | High |
| Cable Pulling and Installation | Musculoskeletal injuries, contact with live cables, tripping hazards | Use correct techniques and mechanical aids for cable pulling, ensure cables are de-energized, keep the workspace clear | Electrician | Medium |
| Panel Installation or Repairs | Contact with live parts, fire hazards, improper handling of equipment | Ensure panels are de-energized, wear appropriate PPE, keep fire extinguishers nearby, double-check connections | Electrician | High |
| Use of Power Tools | Electric shock, tool malfunction, cuts | Inspect power tools before use, avoid using tools with damaged cords, use GFCI-protected outlets, wear safety glove | Electrician | Medium |
| Working Near Overhead Lines | Contact with live wires, electrocution | Maintain safe distances from overhead lines, use insulated tools, follow regulatory guidelines for proximity to energized lines | Supervisor/Electrician | High |
| Handling and Storage of Materials | Strains, improper lifting techniques, proximity to live parts | Use proper lifting techniques, store materials away from live electrical equipment, use mechanical aids where necessary | Electrician | Medium |
| Emergency Situations | Inadequate response to electric shock, fire, or other incidents | Provide first-aid and fire response training, ensure access to first-aid kits and fire extinguishers, establish an emergency response plan | Supervisor | High |
| Clean-Up After Work | Tripping hazards, exposure to live parts | Remove tools and debris promptly, verify circuits remain de-energized, conduct a final inspection | Electrician/Supervisor | Medium |

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| Severity Rating: (1) First Aid / Minor Property Damage. (2) Recordable Accident / Property Damage.  (3) Lost Time Accident / Major Property Loss. (4) Catastrophic Accident |
| What I Am Going to Do? How I Am Going to Do? What are the Risks? How do I Control Risks? Is Risks too High? |
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