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| Reference. No. | | | | | | | | | | | | | | |
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SELF ASSESSMENT GUIDE

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| Qualification: | ELECTRICAL INSTALLATION AND MAINTENANCE NC II | | |
| Units of Competency covered: | <ul style="list-style-type: none"> • Perform Rough-in Activities for Three-phase Distribution System for Power, Lighting and Motor Control Panel • Perform installation of data measurement and control system on electrical and auxiliary equipment. • Install, assemble, test and maintain motor control system | | |
| Instruction: | | | |
| <ul style="list-style-type: none"> • Read each of the questions in the left-hand column of the chart. • Place a check in the appropriate box opposite each question to indicate your answer. | | | |
| Can I? | YES | NO | |
| Perform Rough-in Activities for Three-phase Distribution System for Power, Lighting and Motor Control Panel | | | |
| • Interpret plans and detailed drawing | | | |
| • Identify required proofing of the panel and enclosure | | | |
| • Identify and request materials, tools, equipment, testing devices and PPE needed to complete job requirements in line with prepared work instructions | | | |
| • Check the functional and defective tools, materials and equipment | | | |
| • Identify potential hazards for prevention and selects control measures in accordance with the work plan and site procedures | | | |
| • Identify the functional and defective tools materials and equipment | | | |
| • Use different type of wire and cables depend upon the application | | | |
| • Install cable tray, lighting panel, power panel and motor panel in accordance with standard and as per job requirement. | | | |
| • Apply pulling compound for the installation and inserting of wires in a conduit | | | |
| • Bend and install conduit as per job requirement | | | |
| • Apply safety requirements for wiring works | | | |
| • Perform good housekeeping | | | |
| • Perform commissioning activities | | | |

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| <ul style="list-style-type: none"> • Perform installation of data measurement and control system on electrical and auxiliary equipment | | |
| <ul style="list-style-type: none"> • Interpret plans and detailed drawing | | |
| <ul style="list-style-type: none"> • Handle tools, materials and equipment correctly | | |
| <ul style="list-style-type: none"> • Check and quantify items as needed in the job requirement | | |
| <ul style="list-style-type: none"> • Apply active and non-active test of tools and equipment to ensure its functionality. | | |
| <ul style="list-style-type: none"> • Perform correct procedures for installation of electrical system and auxiliary in line with job requirements* | | |
| <ul style="list-style-type: none"> • Splice, dress and harness wires in accordance with the standard | | |
| <ul style="list-style-type: none"> • Responds to unplanned events or conditions accordingly | | |
| <ul style="list-style-type: none"> • Terminate and mount auxiliary equipment in accordance with the required standard. | | |
| <ul style="list-style-type: none"> • Perform installation economically | | |
| <ul style="list-style-type: none"> • Check and conform installation based on the job requirement. | | |
| <ul style="list-style-type: none"> • Perform good housekeeping | | |
| <ul style="list-style-type: none"> • Perform commissioning activities | | |
| Install, assemble, test and maintain motor control system | | |
| <ul style="list-style-type: none"> • Check and quantify item needed based on the job requirements | | |
| <ul style="list-style-type: none"> • Check and identify correct rating, quantity, sizes and type of control components, wiring devices and other materials in line with job requirements | | |
| <ul style="list-style-type: none"> • Interpret electrical wiring diagram of motor control system | | |
| <ul style="list-style-type: none"> • Interpret electrical wiring diagram of motor control system | | |
| <ul style="list-style-type: none"> • Identify defective and/or substandard electrical materials and reports to immediate supervisor | | |
| <ul style="list-style-type: none"> • Lay out, mount or install and wire electrical components, and control devices according to drawings, plans, specifications based on standards | | |
| <ul style="list-style-type: none"> • Wire-up required / type of electrical motor controller based on the standard | | |
| <ul style="list-style-type: none"> • Lay out, mount or install and wire electrical components, motor and wiring devices according to drawings, plans, specifications based on standards | | |

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| • Follow work schedule to ensure job is completed on time in accordance to a quality standard and minimum wastage | | |
| • Connect and terminate motor terminal leads out to the required existing power supply. | | |
| • Wire-up required electrical control based on the required standard | | |
| • Check for continuity test or ohmmeter test and insulation test to the motor terminal based on the required standard | | |
| • Notify immediate superior upon completion of work | | |
| • Perform installation economically | | |
| • Dispose waste materials and hazardous substances in accordance with environmental rules and procedures | | |
| • Clean, check and return to storage tools, equipment and any surplus materials in accordance with established procedures | | |
| • Perform commissioning activities | | |
| I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor. | | |
| Candidate's Name & Signature | Date: | |

NOTE: *Critical Aspects of Competency