

DIKLAT AC MOBIL

| NO | MATERI | POINT |
|----|--|-----------|
| 1 | Mendiskripsikan prinsip kerja sistem pendingin | 5 |
| 2 | Montase dasar | 5 |
| 3 | Mendiskripsikan prinsip kerja AC Mobil | 5 |
| 4 | Menggambar dan skema kelistrikan AC Mobil | 10 |
| 5 | Merangkai sistem kelistrikan AC Mobil | 10 |
| 6 | Memvacuum dan mengisi refrigerant | 10 |
| 7 | Melakukan bongkar dan pembersihan unit | 10 |
| 8 | Menganalisa trouble shooting pada sistem pendingin | 5 |
| 9 | Sistem pendingin dapat diuji dengan benar | 10 |
| | Jumlah | 70 |

DIKLAT ELEKTRO PNEUMATIK

| NO | MATERI | POINT |
|----|---|-----------|
| 1 | Simulation Pneumatik with <i>Festo Fluidsim</i> | 10 |
| 2 | Control single and double acting cylinder | 5 |
| 3 | Indirect control of single and double acting cylinder | 5 |
| 4 | Control with shuttle valve | 5 |
| 5 | Speed Regulation on Single and Double Acting Cylinder | 5 |
| 6 | Raising the Speed of single acting and double acting cylinder | 5 |
| 7 | Control with two pressure valve | 5 |
| 8 | Automatic Return Control of double acting cylinder using limit switch and timer | 10 |
| 10 | Rangkaian Sekuensial Pneumatik | 10 |
| 11 | Control Miniplant with PLC | 10 |
| | Jumlah | 70 |

DIKLAT GULUNG MOTOR 1 PHASE

| NO | MATERI | POINT |
|----|---|-----------|
| 1 | Membuat perhitungan belitan motor 1 phase | 10 |
| 2 | Menggambar bentangan stator motor 1 phase | 10 |
| 3 | Melepas tutup gandar/stator pada motor 1 phase | 5 |
| 4 | Melepas kumparan stator motor 1 phase | 5 |
| 5 | Membuat dan memasang prespan mika pada stator motor 1 phase | 10 |
| 6 | Memilih dan mengukur penampang kawat dengan micrometer | 5 |
| 7 | Melilit ulang motor Induksi 1 phase mechine rewending | 15 |
| 8 | Mengujicoba hasil rewending | 10 |
| | Jumlah | 70 |

DIKLAT GULUNG MOTOR 3 PHASE

| NO | MATERI | POINT |
|----|---|-----------|
| 1 | Membuat perhitungan belitan motor 3 phase | 10 |
| 2 | Menggambar bentangan stator motor 3 phase | 10 |
| 3 | Melepas tutup gandar/stator pada motor 3 phase | 5 |
| 4 | Melepas kumparan stator motor 3 phase | 5 |
| 5 | Membuat dan memasang prespan mika pada stator motor 3 phase | 10 |
| 6 | Memilih dan mengukur penampang kawat dengan micrometer | 5 |
| 7 | Melilit ulang motor Induksi 3 phase mechine rewending | 15 |
| 8 | Mengujicoba hasil rewending | 10 |
| | Jumlah | 70 |

DIKLAT PLC DAN HMI

| NO | MATERI | POINT |
|----|--|-----------|
| 1 | Penggunaan Aplikasi EKTS Pada konsep Otomation Control Industri | 5 |
| 2 | Pemrograman PLC CP1E-NA20DRA menggunakan Ladder Diagram | 10 |
| 3 | Download dan Upload Program Ladder Diagram ke PLC | 5 |
| 4 | Merangkai wiring Input dan Output digital PLC | 10 |
| 5 | Pemrograman dan Perangkaian wiring PLC Pada packing conveyor | 10 |
| 6 | Pemrograman HMI omron NS5SQ10-V2 | 10 |
| 7 | Koneksi HMI omron NS5SQ10-V dan PLC | 10 |
| 8 | Pembuatan Interface HMI NS5SQ 10-V2 dan program PLC untuk packing conveyor | 10 |
| | Jumlah | 70 |

DIKLAT PLC DAN INVERTER

| NO | MATERI | POINT |
|----|---|-----------|
| 1 | Penggunaan Aplikasi EKTS Pada konsep Otomation Control Industri | 5 |
| 2 | Pemrograman PLC OMRON CP1E NA20DRA menggunakan Ladder Diagram | 10 |
| 3 | Download dan Upload Program Ladder Diagram ke PLC | 5 |
| 4 | Merangkai wiring pengawatan Input dan Output PLC | 10 |
| 5 | Pemrograman dan Perangkaian wiring pengawatan PLC Pada packing conveyor | 10 |
| 6 | Kontrol Inverter motor 3 fasa dengan referensi internal | 10 |
| 7 | Kontrol inverter motor 3 fasa dengan referensi external | 10 |
| 8 | Wiring pengawatan inverter to PLC | 10 |
| | Jumlah | 70 |

DIKLAT PLC LANJUT

| NO | MATERI | POINT |
|----|---|-----------|
| 1 | Programing PLC Omron with CX-Programer | 5 |
| 2 | Bit Level Instruction : NO, NC, Transitional, Coils, Jump, Calls, set and Reset | 5 |
| 3 | Basic Instruction : TIMER, COUNTER, REGISTER | 5 |
| 4 | Math Functions : ADD, SUBTRACT, MULTIPLY, DIVIDE | 5 |
| 5 | Data manipulation : MOVE, COMPARE, BCD, AND, OR | 5 |
| 6 | Set Real time clock (RTC) PLC omron | 10 |
| 7 | Programing and Wiring Analog I/O PLC | 5 |
| 8 | Integrated Digital and Analog I/O PLC with Invereter Omron | 10 |
| 9 | Programing HMI Omron NS5SQ with CX-Designer | 10 |
| 10 | Integrated PLC, HMI NS5SQ 10-V2, and Invereter | 10 |
| | Jumlah | 70 |