**THE NYERI NATIONAL POLYTECHNIC**

**MODULAR CURRICULUM IMPLEMENTATION COURSE PLANNER**

**PROGRAMME: INSTRUMENTATION AND CONTROL OPERATIONS LEVEL 4 PROGRAMME CODE: 0714 354A**

**MODULAR UNIT SUMMARY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MODULE** | **UNITS** | | | |
| **UNIT CATEGORY** | **UNIT CODE** | **UNIT NAME** | **DURATION (Hours)** |
| **ONE (I)** | CORE | 0713 351 13A | Electrical Installation | 80 |
| CORE | 0714 351 14A | Instrumentation And Control System Components installation | 160 |
|  |  | **Sub-total** | **240 HRS** |
| **TWO (2)** | CORE | 0714 351 15A | Instrumentation And Control System Operations | 160 |
| CORE | 0714 351 16A | Instrumentation And Control System Maintenance | 160 |
|  |  | **Sub-total** | **320 HRS** |
|  |  |  | Industrial Attachment | **320 HRS** |
| **TOTAL HOURS** | | | | **880 HRS** |

| **UNIT CODE** | **UNIT OF COMPETENCE** | **ELEMENT(S)** | **DURATION (HRS)** |
| --- | --- | --- | --- |
| **MODULE 1** | | | |
| 0713 351 13A | Electrical Installation | Prepare list of tools, equipment, and materials | 10 |
|  |  | Perform piping and laying of cables | 20 |
|  |  | Install electrical components | 18 |
|  |  | Terminate electrical installation | 12 |
|  |  | Inspect and test installation | 10 |
|  |  | Document an Electrical installation | 10 |
|  |  | **TOTAL HOURS** | **80** |
| 0714 351 14A | Instrumentation And Control System Components installation | To prepare for installation of instrumentation and control system component | 64 |
|  |  | To assemble instrumentation and control system components | 56 |
|  |  | To test instrumentation and control system components. | 40 |
|  |  | **TOTAL HOURS** | **80** |
| **MODULE 2** | | | |
| 0714 351 15A | Instrumentation And Control System Operations | To perform instrumentation and control system start up | 60 |
|  |  | To changeover instrumentation and control system dies | 50 |
|  |  | To run instrumentation and control system | 50 |
|  |  | **TOTAL HOURS** | **160** |
| 0714 351 16A | Instrumentation And Control System Maintenance | To prepare instrumentation and control systems maintenance schedule | 30 |
|  |  | To conduct instrumentation and control systems preventive maintenance | 35 |
|  |  | To conduct instrumentation and control systems corrective maintenance | 50 |
|  |  | To test and commission instrumentation and control system | 45 |
|  |  | **TOTAL HOURS** | **160** |
| **Industrial Attachment** | | **HOURS** | **320** |
| **GRAND TOTAL** | | **HOURS** | **880 HRS** |