Product Name : Modern Electrical Technical Skills Training Assessments Systems	**Product Code :** CIVIL-MET-162-0001

Description :

Modern Electrical Technical Skills Training Assessments Systems

Technical Specification :

Overview

The modern electrical technical skills training assessment system is a device that uses a standard electrical control cabinet for its primary body and it features a smart, double-sided workstation.

The devices included are the main power supply, observation window, electrical system, and motors. The internal cabinet features a flexible and removable hanging box module that includes a stepper motor, AC servo motor module, PLC frequency converter, electric drive and lighting circuit. These components are all suitable for learning and practicing for a vocational skills certification.

Technical parameter of the modern electrical technical skills training assessment system

Total dimensions: 850×800×1700mm+600×530×1000mm

Working power: three phase five wire 380V/220V, 50HZ

Output power: AC 380V safety terminal output , output power indication, AC 220V safety socket output, DC 24V,12V safety terminal output

Capacity: ?1.5KVA

Optional (PLC type)

Siemens system

Mitsubishi system

Training stages of the modern electrical technical skills training assessment system

1 Change-over switch is connected to the voltmeter to measure the three-phase voltage

2 AC asynchronous motor jog control circuit connection

3 The control circuit of the one - way connection rotation of the three - AC asynchronous motor

4 Contactor interlocked three - phase AC induction motor positive and reverse control circuit

5 Buttons interlocked three-phase asynchronous motor positive, reverse control circuit

6 Buttons, contactor interlocking three-phase asynchronous motor positive, reverse control circuit

7 Universal switch control three-phase asynchronous motor positive and reverse rotation

8 Three-phase AC induction motor Y- ? (manual switch) start control circuit

9 Three-phase AC asynchronous motor Y-? (time relay) start control circuit

10 Stator winding series resistance starting control circuit

11 Brake control circuit for half - wave rectifier energy consumption

12 Remote and local control circuit connections

13 Centrifugal switch with reverse brake control circuit

14 Motor full - wave rectified energy consumption brake control circuit

15 Three - phase Asynchronous Motor Reverse Circuit Braking Circuit

16 Motor round trip control circuit

17 Direct start - up and stop control of DC Motor

18 DC motor positive and reverse control

19 Speed regulation of DC Motor

20 Circuit control and common fault inspection and maintenance of CA6140 lathe machine

21 PDH electric hoist circuit control and common fault inspection and maintenance

22 T68 Boring machine circuit control and common fault inspection and maintenance

23 X62W milling machine circuit control and common fault inspection and maintenance

24 Jog and continuous rotation circuit

25 Button Switching two -speed motor speed control circuit

26 Relay switching two - speed motor speed control circuit

27 Three motors sequence control circuit

28 Frequency converter function parameter setting and operation experiment

29 Frequency converter on the motor jog control, start and stop control

30 Multi-terminal speed control of frequency converter on motor

31 Frequency conversion, frequency switching control of frequency converter

32 Motor open loop speed control based on the analog control

33 Motor open - loop speed control based on panel control

34 Frequency converter protection and alarm function

35 PLC-based inverter open-loop speed control

36 PLC control motor start in sequence

37 Three - phase asynchronous motor Y - ? controlled by PLC

38 HMI parameter settings

39 HMI programming

40 HMI, frequency converter and PLC integrated

41The control of two - phase hybrid stepping motor

42 AC servo motor control

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