

Prospectus on training Programs



NSIC-Technical Services Centre

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About NSIC

National Small industries Corporation Ltd., (NSIC), an ISO 9001 certified company, has been working to promote aid and foster the growth of micro and small enterprises since its establishment in 1955.

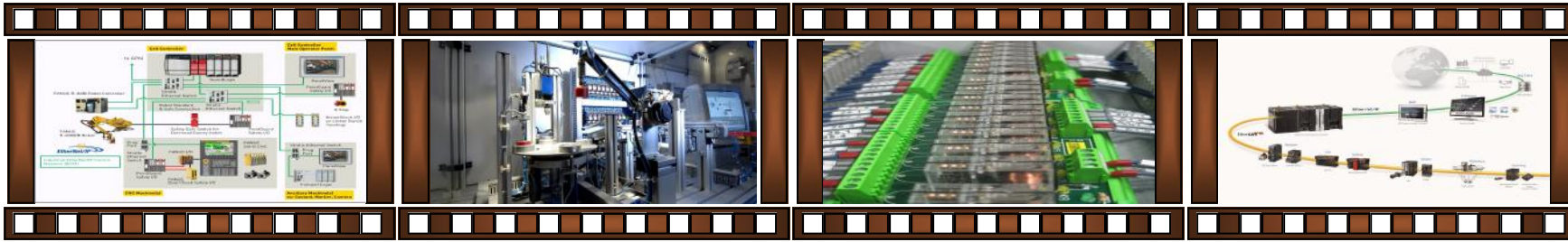
National Small industries Corporation Ltd., (NSIC), operates through its countrywide network of offices and technical Services Centres in country. In addition, NSIC has set up Training-cum-Incubation centers in different parts of the country.

National Small industries Corporation Ltd., (NSIC), has seven technical support services are being rendered to MSMEs. These centres are located at New Delhi, Rajkot, Chennai, Howrah, Hyderabad, Aligarh and Rajpura.

NSIC- Technical Services Centre (NTSC), Rajkot established in the year 1965 for the support of existing and aspiring entrepreneurs of MSME Sector of Saurashtra region by providing skilled skill development training programs.

NSIC Rajkot Centre have incubator unit, this unit facilitates setting up of new enterprises all over the country by creating self-employment opportunities for the unemployed persons.

The objective of this scheme is to facilitate establishment of new small enterprises by way of providing integrated services in the areas of training for entrepreneurial skill development, selection of small projects, and preparation of project profile, reports, identification and sourcing of plant, machinery and equipment, facilitating sanction of credit facility and providing other support services in order to boost the development of small enterprises in manufacturing and services sectors.



Training on Automation

Industrial automation, today has overcome the limitation of traditional industries by providing increase in productivity and safety, better quality, repeatability, optimization in material wastage and manpower.

Course-1 P.L.C. Programming

Contents: Learn about following PLC Programming

- 1.Messung 2.Delta 3.AB 4.ABB 5.Siemens
- 6.Schneider 7.Omron

Duration: 2 Month

Fees: 6000/-

Course-2 HMI Developer

Contents: Learn about following Physical HMI

- 1.Delta 2. Schneider

Duration: 2 Month

Fees: 8000/-

Course-3 SCADA Developer

Contents: Learn about following software based SCADA

- 1.Intouch wonderware

Duration: 2 month

Fees: 8000/-

Course-4 Drives and Motor Handling

Contents: Learn about following Drives and Motors

- 1.VFD and Induction motor 2. Servo motor and Driver 3.Stepper motor and driver

Duration: 2 month

Fees: 6000/-

Features

- Training content are as per industrial requirements.
- Well equipped and furnished lab facility
- Training certificate is approved across India.
- Training is deliver on more than 70% practical.



Course-5 Process Automation

Contents:

Position Sensor

-Proxy, Encoder

Temp. Sensor(MS 1203)

RTD/PID,

Thermo couple

Analogue temp. Scanner

Level measurement

Flow measurement

Solenoid valve

Process control based on PID

Duration: 3 Month

Fees: 15000/-

Course-6 Professional Automation

Contents:

3-PLC programming

Messung, Delta, AB

Delta HMI developing

DOPB03S311

Intouch SCADA developing

Drives and Motor handling

Induction motor and VFD

Servo Motor and Driver

Stepper Motor and driver

Interfacing of devices

Basics of wiring

Duration: 3Month

Fees: 15000/-

Course-7 Networking

Contents: Learn about following,

Communication & Networking

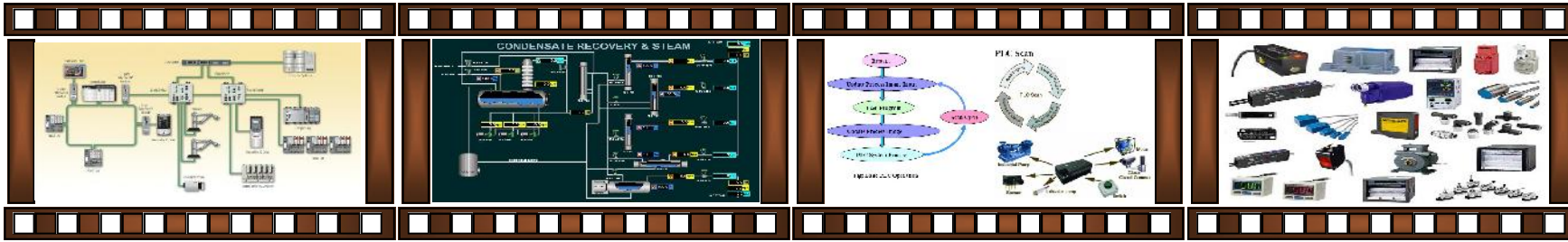
Wired, Wireless (DH-485,WiFi,ZigB)

Android based operating

DOP-e_Server

Duration: 1 Month

Fees: 4000/-



Course-8 Industrial Automation

Contents:

3-PLC programming (Messung, Delta, AB)
Delta HMI developing (DOPB03S311)
SCADA developing (Intouch)
Drives and Motor handling (VFD,Servo,Stepper)
Interfacing of devices
Position Sensor (Proxy, Encoder)
Temp. Sensor (RTD/PID,Thermo couple)
Analogue temp. Scanner (MS 1203)
Level measurement
Flow measurement
Solenoid valve
Process control based on PID
Communication and Networking(DH-485,WiFi,ZigB)
Android based operating (DOP-e_Server)
Panel wiring.

Duration: 6 Month

Fees: 40000/-

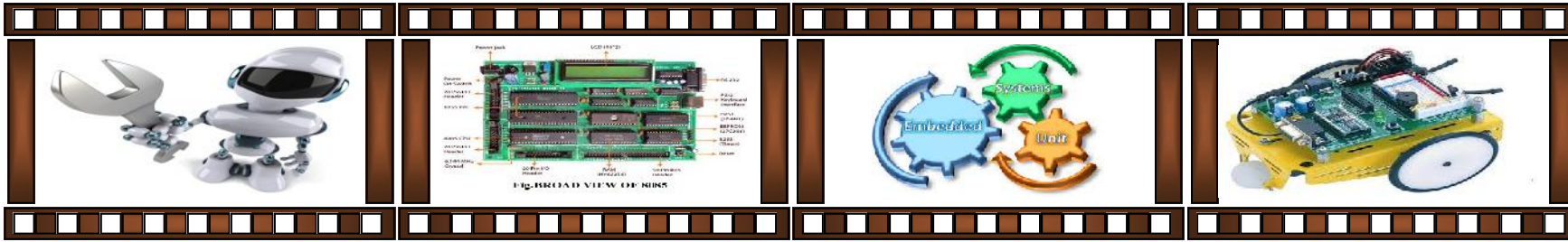
Course-9 Hydro-Pneumatic Automation

Contents:

Introduction to Electro-Mechanical system
System components
Schematics of Electro-Mechanical system
Introduction to Hydraulics & Pneumatics
Application of Hy. & Pneum. System in Industries
Fundamental of Hydraulics
Introduction of Automation studio Software
Study and application of various types of Valve
Direction control Valves
3/2 Solenoid Val
5/3 Solenoid Valve
Pressure control Valves
Flow control Valves
Gate Valve
Needle Valve
Check Valve
Single acting cylinder
Double acting cylinder
Fundamental of Electronics
Logical Programming (PLC)
Electro-Mechanical circuit design & simulation

Duration: 3 Month

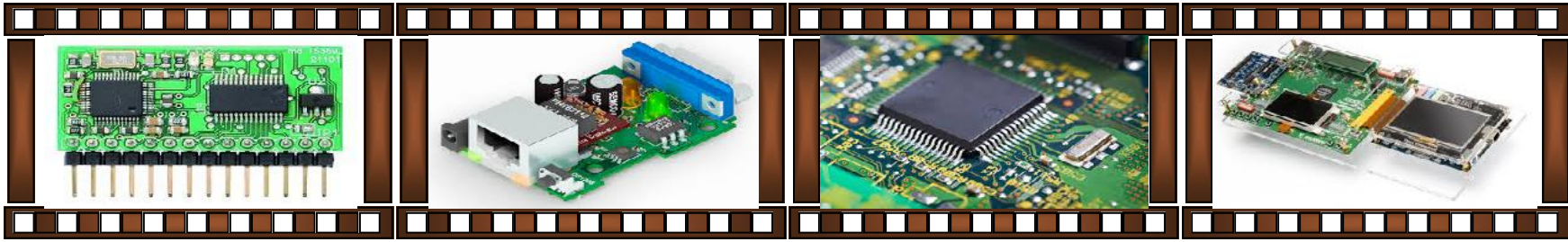
Fees: 10000/-



Training on **Embedded System and Robotics**

Today has overcome the limitation of traditional industries by providing increase in productivity and safety, better quality, repeatability, optimization in material wastage and manpower.

1	Name of Course	Embedded system and Robotics
2	Course duration	3 month
3	Objective	Objective of this course is to get knowledge in the field of embedded system as per industrial requirement.
4	Purpose	Student can get knowledge in field of Embedded system and make their career bright.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	Diploma
7	Minimum NSQF level	05
8	Total course Fee	RS 7000/-
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Soldering kits, Development boards, Various Robots etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	250 hrs.
17	NO of Hour of Theory	120 hrs.
18	No of Hour of Practical	130 hrs.



Course-1 Embedded System

Contents:

- Circuit Basic concept
- Make power supply on bread board (Practical)
- Introduction of Proteus software
- Simulation of circuits in Proteus software
- Working model of circuit (Practical)
- Overview of C and C++ programming
- Data types, operators & Expressions
- Decision making branching & looping
- Array, Character Array
- Strings
- User-defined functions
- Pointers & Structures
- Practical on programs
- Run code on development board
- Basic of AVR series controller
- Introduction to Win AVR software
- Basic Programming of Atmega controller
- Advance programming of Atmega
- Simulation on proteus
- Introduction to Hardware
- Basic of Breadboard understanding, Soldering on PCB
- interfacing of LED, Relay, DC motor
- managing input and outputs of controller
- Pushbutton and keypad interfacing
- Interfacing of various Sensors
- RF interfacing
- GSM technologies
- GPS interfacing
- Xbee interfacing
- RFID working principal
- Basic of 8051 controller
- Programming on keil for 8051
- Simulation on proteus
- Advance programming of 8051
- Simulation on proteus
- Run code on development board
- Basic of AVR series controller
- Introduction to Win AVR software
- Basic Programming of Atmega controller
- Simulation on proteus

Duration: 2 Month

Fees: 5500/-



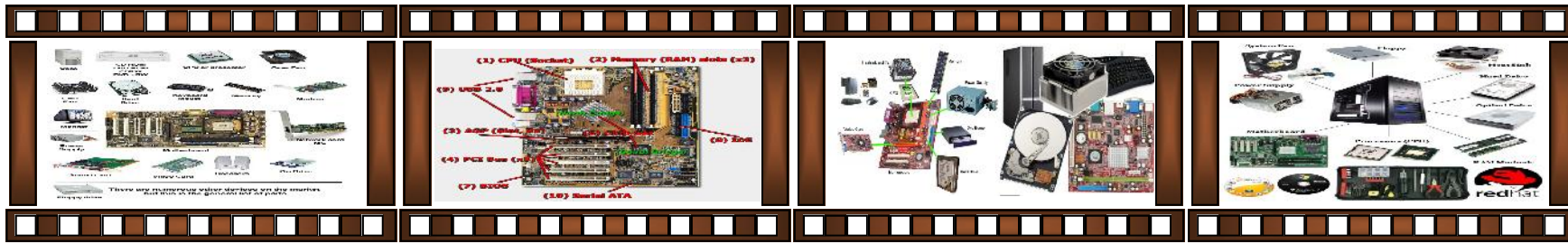
Course-2 Robotics

Contents:

- Introduction to Robotics
- Introduction to Manual Robotics
- Motor Principle explanation
- Introduction to electronics
- Introduction to breadboard.
- Testing of IR sensors, IR range detection.
- L293D IC Explanation & Making Connections of L293D IC on BREAD BOARD.
- Interface Motor Driver with IR sensor
- Mechanism in Robots
- Completion of line follower, obstacle detector, edge avoider
- Different type of robots introduction
- Doubts & Practical Session
- Different types of motor working
- Practical session on Stepper,DC,servo motor
- introduction to Gesture control robot
- Accelerometer sensor working
- Robot remote working of gesture control robot
- Gesture base robot working model
- Assembling of Hexapad robot
- Assembling of line follower robot
- Assembling of dumpster robot
- Assembling of lightsiker robot
- assembling of crane type robot
- Student review on Robotics system
- Internal Exam Theory:70Mark practical/Viva
- Competition, Doubts & Practical Session
- EXTRA/OPTIONAL PROJECTS
- Certificate Distribution Cum Farewell Ceremony

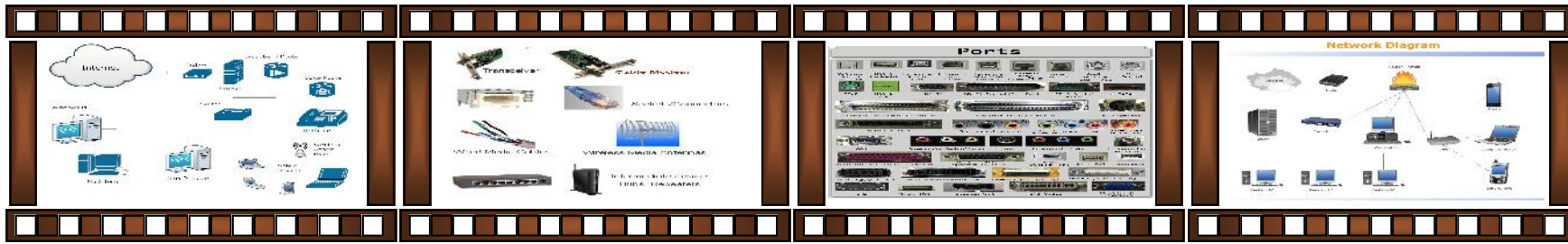
Duration: 2 Month

Fees: 5500/-



Training on **Hardware and Networking**

1	Name of Course	Hardware and Network course
2	Course duration	3 month
3	Objective	Objective of this course is to get knowledge in the field of computer Hardware and Network as per industrial requirement.
4	Purpose	Student can get knowledge in field of Hardware and Network system and make their career bright.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	HSC
7	Minimum NSQF level	03
8	Total course Fee	RS 5500/-
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, PC, Lan cables etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	144 hrs.
17	NO of Hour of Theory	84 hrs.
18	No of Hour of Practical	60 hrs.



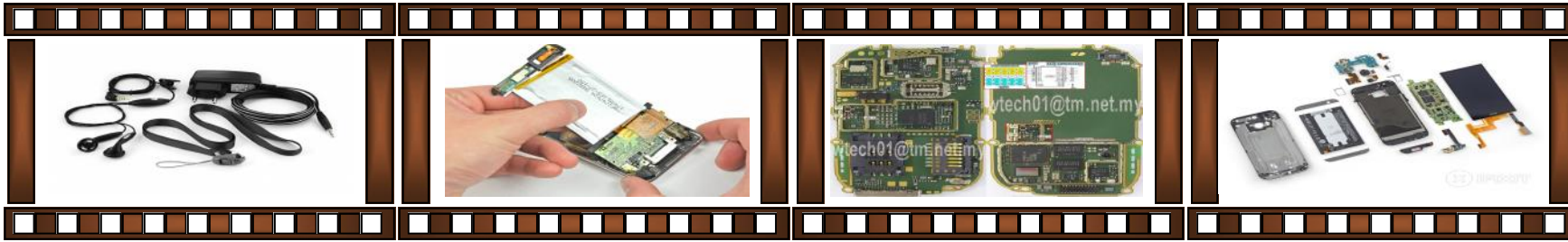
Course-1 Hardware and Networking

Contents:

- Introduction to computer
- Introduction to computer hardware
- Arithmetic Unit
- Logical Unit
- Control Unit
- Memory Unit
- Processor
- Input Device
- Output Device
- CPU
- Motherboard
- Power System
- Network Interface Card
- Expansion Card
- Storage Device ,Dvd Rom, Cd Rom
- Floppy Drive, Fan, Heat Sink
- Capacitor, Register, Transistor, Case Ports
- Digital Camera
- Scanner
- Printer
- Super Computer
- Hardware Troubleshooting
- Hardware Repairing
- Introduction Of Network
- Wired Network
- Wireless Network
- Classification of Network
- IP Address
- Routing Techniques
- Types Of Network (Point and Multi Point)
- Topology, Protocol
- OSI Reference Model
- Types of Wires
- Network Interface Card, Ethernet, Internet
- Intranet, Extranet, Inter Network
- Hub
- Switch
- Bridge
- Repeater
- Router
- Gateway
- Proxy Server
- Firewall
- Connector, Wire Crimping
- Network Security
- Network Troubleshooting
- Network Repairing

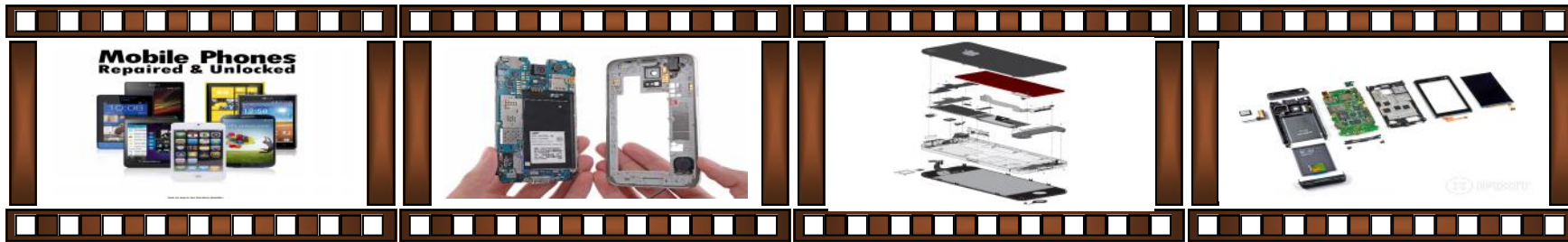
Duration: 3 Month

Fees: 5500/-



Training on Mobile Repairing

1	Name of Course	Mobile repairing
2	Course duration	2. month
3	Objective	Objective of this course is to get knowledge in the field of Mobile repairing as per industrial requirement.
4	Purpose	Student can get knowledge in field of Mobile repairing and make their career bright.
5	Minimum Batch size	15 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Fee	RS 3500/-
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Damage mobile, screw driver set etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	180 hrs.
17	NO of Hour of Theory	50 hrs.
18	No of Hour of Practical	130 hrs.



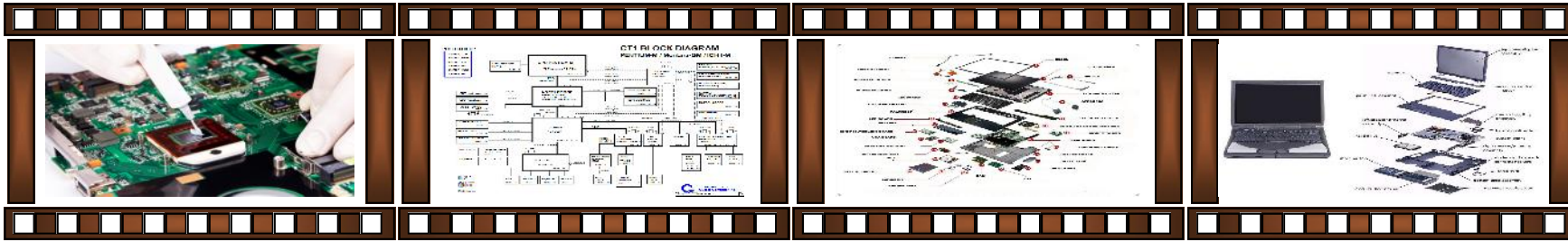
Course-1 Mobile Repairing

Contents:

- Basics of mobile communication
- Use of tools instruments used in mobile phone re-pairing
- Details of various components used in mobile phone
- Basic parts of mobile phone Mic, Speaker Buzzer, LCD, Antenna etc.
- Use of multimeter
- Use of battery booster
- Basic circuit board
- Introduction of Motherboard
- Assembling &disassembling of different types of mobile phone
- Soldering & Disordering components using different Soldering tools
- Names of different ICs work of different ICs working on smd /bga ics and the pcd
- Fault finding & troubleshooting
- Jumpering techniques and solutions
- Troubleshooting through circuit diagrams
- Repairing procedure for fixing different hardware and advanced faults
- flashing & Formatting
- unlocking
- Use of secret codes downloading

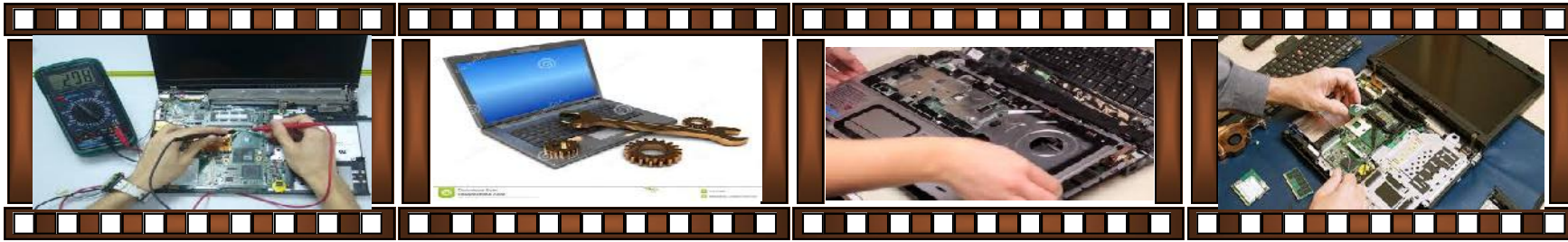
Duration: 2 Month

Fees: 3500/-



Training on Laptop Repairing

1	Name of Course	Laptop repairing
2	Course duration	2.month
3	Objective	Objective of this course is to get knowledge in the field of Laptop repairing as per industrial requirement.
4	Purpose	Student can get knowledge in field of Laptop repairing and make their career bright.
5	Minimum Batch size	15 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Fee	RS 3500/-
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, damage laptop, PC etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	130 hrs.
17	No of Hour of Theory	50 hrs.
18	No of Hour of Practical	80 hrs.



Course-1 Laptop Repairing

Contents:

- Laptop introduction
- History and Utilities of Laptop
- Introduction of hardware & software
- Types of computers
(Features, measurement unit of data, parts memory)
- Hardware parts
- Block diagram,
 - Processor
 - Display card
 - Floppy drive
 - Hard disk
 - Serial ATA
 - Esata
 - CD-ROM
 - Sound card
 - Modem
 - Keyboard
 - Mouse
 - Joy-stick
 - Monitor
 - Printer
 - Plotter
- Comparison of processor
- Troubleshooting for
(printer,keyboard,mouse,monitor,mother board,cd,dvd,new video card,sound card,network card)
- Introduction,utilities,types,instalationof windows
XP,VISTA,LINUX,WINDOWS7
- Software installation
- Laptop assembling
- LCD Repairing
- PRINTER Introduction, types, utilities
- INTERNET Introduction, LAN ,MAN, WAN
- Types of anti-virus, web-security.
- Formatting

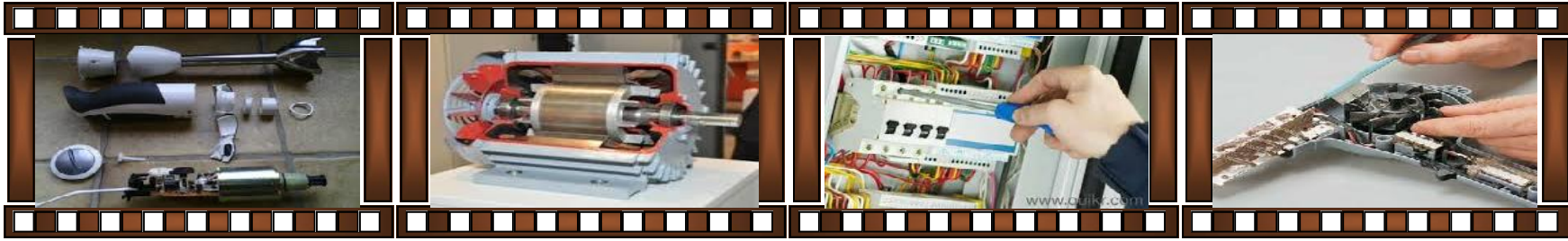
Duration: 2 Month

Fees: 3500/-



Training on **Home Appliances Repairing**

1	Name of Course	Home Appliances Repairing
2	Course duration	2 month
3	Objective	Objective of this course is to get knowledge in the field of repairing and maintenance of home appliances
4	Purpose	Candidate will get repairing skills and theoretical knowledge.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	10 th /I.T.I./Diploma
7	Minimum NSQF level	05
8	Total course Fee	RS 3500/-
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, wires, plastic tap, etc.
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	125 hrs.
17	NO of Hour of Theory	45 hrs.
18	No of Hour of Practical	80 hrs.



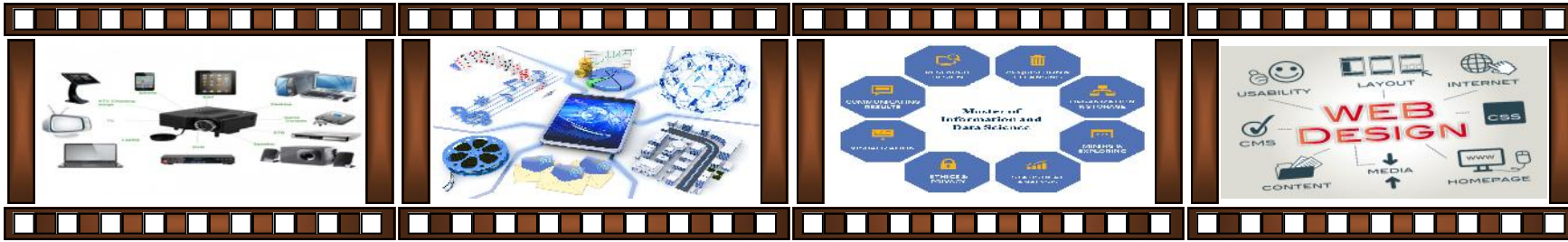
Course-Home Appliances Repairing

Contents:

- Introduction of home appliances
- Basic fundamentals of electrical energy
- Introduce of tool kit
- Basic Concept, Working , Case study of following domestic appliances
 - Refrigerator
 - Mixture
 - ceiling fan
 - Tubelight
 - Blender
 - Washing Machine
 - Induction motor
 - Electric iron
 - Heater
 - Vacuum cleaner
- Fault finding
- Precaution while repairing
- Maintenance & Repairing
- Safety tip.
- practices

Duration: 2 Month

Fees: 3500/-



Training on Web Designing and Multimedia

1	Name of Course	Web design and multimedia
2	Course duration	3 month
3	Objective	Objective of this course is to get knowledge in the field of Web design and multimedia as per industrial requirement.
4	Purpose	Student can get knowledge in field of Web design and multimedia and make their career bright.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	Diploma
7	Minimum NSQF level	02
8	Total course Free	RS 6000/-
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Soldering kits, Development boards, Various Robots etc.
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	240 hrs.
17	No of Hour of Theory	130 hrs.
18	No of Hour of Practical	110 hrs.



Course-1 Web Design and Multimedia

Contents:

- Introduction to Web Technologies
- Protocols and Port Numbers
- Domain Names, DNS and Domain
- Client and Server Software.
- Static, Dynamic and Web Apps
- Practices/ Demonstrations
- Client and Server side scripting
- Variables, Operators, loops
- Java Scripting
- Design Banners and Website Layout
- Conversation of PSD to XHTML
- Domain Registration
- Graphic and Multimedia Studio
- Computing for Design
- Applied Graphics and Imaging
- Drawing, Design Principles and Color Theory
- Visual Communication
- Motion Graphics
- Information and Interface Design
- Digital Multimedia
- Image Processing

Duration: 5 Month

Fees: 9000/-



Training on Beauty parlor

1	Name of Course	Beauty parlor
2	Course duration	2 month
3	Objective	Objective of this course is to get knowledge in the field of Beauty parlor.
4	Purpose	Student can get knowledge in field of Beauty parlor and make their career bright.
5	Minimum Batch size	15 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Fee	RS 2500/- RS
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Beautician material etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	216 hrs.
17	NO of Hour of Theory	86 hrs.
18	No of Hour of Practical	130 hrs.



Course-1 Beauty parlor

Contents:

- Introduction of beauty
- Introduction of threading
- Eyebrows shaping
- Upper lips, forehead, chin threading
- Introduction of waxing
- waxing practical
- introduction of bleaching
- types of bleaching
- bleaching practice
- introduction of facial
- types of facial
- different facial
- facial practical
- Manicure practical
- introduction of pedicure
- pedicure steps
- pedicure practical
- introduction of hair care
- types of hair
- hair treatment
- reasons of hair problems
- introduction of hair spa
- hair spa practice
- introduction of hair cut
- introduction of perming
- waxing
- Introduction of body massage
- steps for body massage
- steps for scalp, neck, hand massage
- body massage practical
- introduction of nail treatment
- Introduction of manicure
- Manicure steps
- Hair straightening
- Types of make up
- Types of face and skin colour
- Methods of make up

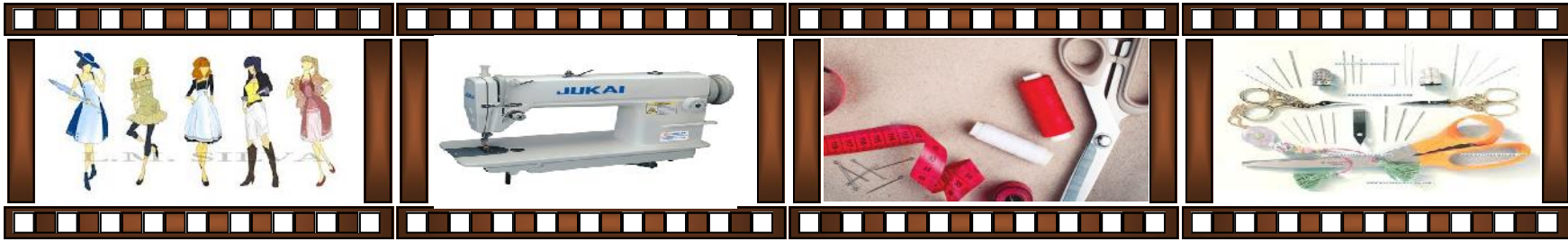
Duration: 2 Month

Fees: 2500/-



Training on Fashion Designing

1	Name of Course	Professional Course in Fashion Designing
2	Course duration	12 Month
3	Objective	Objective of this course is to get knowledge in the field of fashion designing.
4	Purpose	Candidate will get repairing skills and theoretical knowledge.
5	Minimum Batch size	20 trainees
6	Eligibility of Trainee	10 th
7	Minimum NSQF level	03
8	Total course Fee	RS 22000/-
9	Payment Schedule (Installment)	Four (installment)
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Stitching machine ,thread, sizer , Cloth, Buttons, etc.
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	750 hrs.
17	NO of Hour of Theory	250 hrs.
18	No of Hour of Practical	500 hrs.



Course-Professional course in Fashion designing

Contents:

- Identification of Tools & Equipment
- Familiarization to Industrial model
- Lock stitch sewing machine
- Basic part and attachment
- Functions
- Defects and remedies
- Needles and threads
- Practice of sewing and practical exercises on sewing
- Introduction to sewing machine & its components
- Basic part and attachment and Their applications
- Classification of sewing machine, cutting machines, and finishing equipments and their applications
- Defects and remedies
- Needles
- Safe broken Needle disposable Policy.
- Threads
- Introduction To Hand Stitching
- Introduction to decorative stitches (Flat, looped, knotted, crossed stitches)
- Introduction To Seams & Seam (Finishes, Seams, Seam finishes)
- Samples of Weaving (Plain, Twill, Satan, Basket, Sateen, Rib, Honey comb)
- Introduction and Identification of Different type of: (cotton fabric, Synthetic, Woolen, Sheer, Silk, Linen, Pile fabrics, Laces, Buttons, Braids, Cords-Fusings ,etc)
- Making draft and samples of Sleeves, Pockets, Collars
- Theoretical Introduction to Fasteners, Trimmings, Hems.
- Introduction to elements and principle of design
- Fundamentals and basics of color
- Color Theories and color scheme
- Understand concepts of design textures ,shapes and forms
- Selection of Dresses according to (age, occasion, climate, personality, age & sex)
- Age group relation to design various categories of men's wear, women's wear, kids wear
- Ready Made Garments Industry
- Basis of selection of readymade
- Garment Merits.

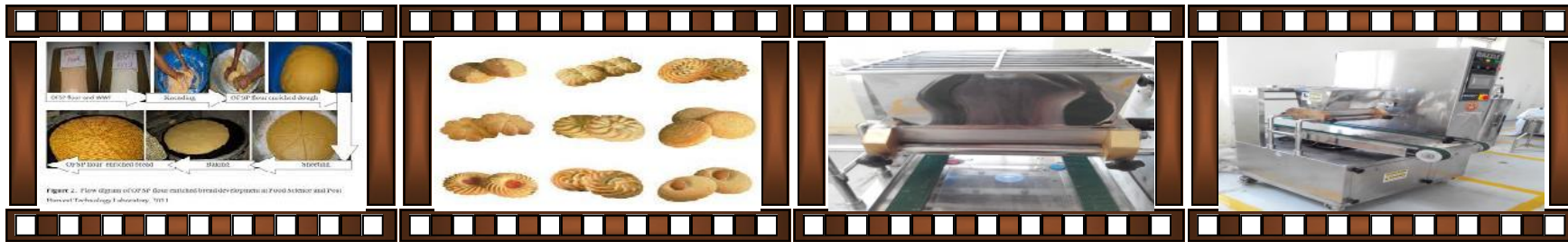
Duration: 12 Month

Fees: 22000/-



Training on **Biscuit Manufacturing**

1	Name of Course	Biscuit manufacturing
2	Course duration	3 month/weekly 2 Days
3	Objective	Objective of this course is to get knowledge in the field of Biscuit manufacturing as per industrial requirement.
4	Purpose	Student can get knowledge in field of Biscuit manufacturing process and make their career bright to get job.
5	Minimum Batch size	30 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Free
9	Payment Schedule (Instalment)	single installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Biscuit machine etc.,
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	No of Hour of Theory	42 hrs.
18	No of Hour of Practical	30 hrs.



Course- Biscuit Manufacturing

Contents:

- Introduction to Oven
- Introduction to cookies dropping machine
- Startup of machine
- Oven starting up instruction
- Practice on Oven starting up
- Machine settings
- Demonstration of weekend activities
- Practice
- Doo Making recipes of bread
- Selection ingredients
- Biscuit Designs
- Machine panel dropping Function
- Practices
- Awareness of warnings, Risks while operating oven
- Troubleshooting And remedies
- Practice

Duration: 3 Month



Training on **Bread and Bakery manufacturing**

1	Name of Course	Bread and Bakery manufacturing
2	Course duration	3 month/Weekly 2Days
3	Objective	Objective of this course is to get knowledge in the field of Bread and Bakery manufacturing as per industrial requirement.
4	Purpose	Student can get knowledge in field of Bread and Bakery and make their career bright.
5	Minimum Batch size	30 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Free	
9	Payment Schedule(Installment)	single installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Bread and biscuit machinery etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	No of Hour of Theory	30 hrs.
18	No of Hour of Practical	42 hrs.

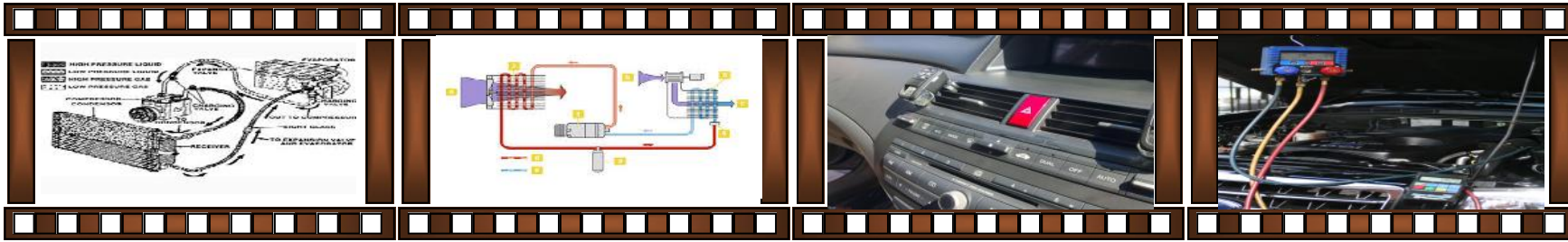


Course- Bread and Bakery manufacturing

Contents:

- Introduction to rotary rack oven
- Working Principle
- Basic Metallurgy
- Oven starting up instruction
- Practice on Oven starting up
- Preparation procedure of oven and tray
- Preparation procedure of oven and tray
- Preparation procedure of oven and tray
- Practice
- Do Making recipes of bread
- Selection ingredients
- Machine settings
- Demonstration of weekend activities
- Demonstration of weekend activities
- Practices
- Awareness of warnings, Risks while operating oven
- Troubleshooting And remedies
- Safety precaution
- Practice

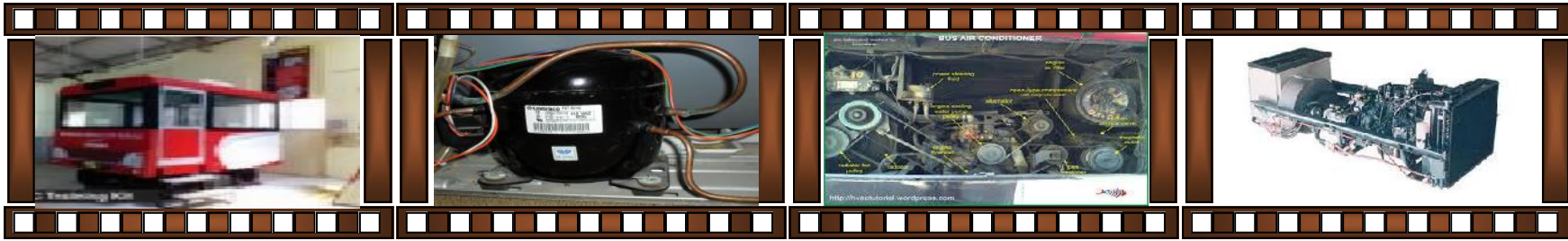
Duration: 3 Month



Training on **Bus A.C. and Car A.C. Repairing**

Industrial automation, today has overcome the limitation of traditional industries by providing increase in productivity and safety, better quality, repeatability, optimization in material wastage and manpower.

1	Name of Course	bus AC and car AC
2	Course duration	3 month/Weekly 3 Days
3	Objective	Objective of this course is to get knowledge in the field of bus AC car AC as per industrial requirement.
4	Purpose	Student can get knowledge in field of bus AC and car AC and make their career bright.
5	Minimum Batch size	30 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Free	
9	Payment Schedule(Installment)	Single installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, working model of bus AC and Car AC etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	No of Hour of Theory	12 hrs.
18	No of Hour of Practical	60 hrs.

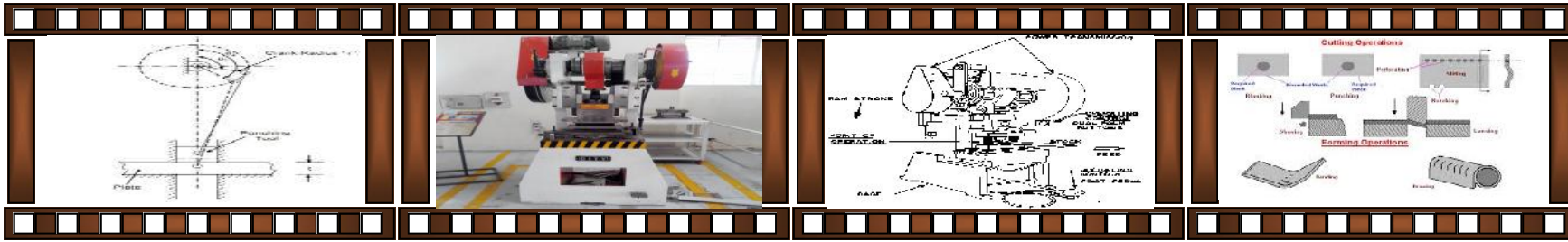


Course- Bus AC and car AC Repairing

Contents:

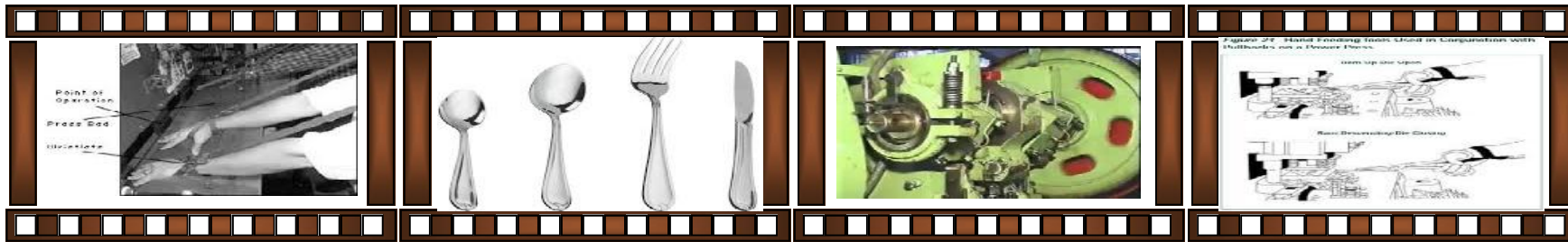
- Introduction to Air conditioning systems
- Fundamentals of AC systems
- Construction and working
- Requirements for applications
- Equipment/Tools/Instruments demonstration
- Practice
- Technical Calculations, AC cycles.
- AC system Material technology (Gases, Metals tubes)
- Refrigerants , Halide Leak Detectors
- Tubing
- Soldering
- Practice on testing for leaks
- Leak repairing
- Commercial Air-Conditioning Systems
- Installing And Controlling For AC unit
- Fittings, Hardware
- Metering Devices
- Practice
- Servicing and Safety
- Fault finding and trouble shooting
- Practice

Duration: 3 Month



Training on Mechanical power press

1	Name of Course	Mechanical power press
2	Course duration	3 month/Weekly 2Days
3	Objective	Objective of this course is to get knowledge in the field of Manufacturing (Mechanical power press) as per industrial requirement.
4	Purpose	Student can get knowledge of Mechanical power press and make their career bright.
5	Minimum Batch size	30 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Fee	
9	Payment Schedule (Installment)	Single installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Mechanical power press etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	NO of Hour of Theory	12 hrs.
18	No of Hour of Practical	60 hrs.



Course-Mechanical power press

Contents:

- Introduction to Mechanical power press
- Basic principles of mechanical power press
- Working principle
- Over mechanical power press Instruments
- Basic metallurgy
- Practice
- Preparation of procedure techniques
- Types of operations
- Press working consumables
- Machine setting
- Demonstration
- Practice

Duration: 3 Month



Training on **Packaging Machine for liquid and Granules**

Industrial automation, today has overcome the limitation of traditional industries by providing increase in productivity and safety, better quality, repeatability, optimization in material wastage and manpower.

1	Name of Course	Packaging machine for liquid and granules
2	Course duration	3 month/Weekly 2 Days
3	Objective	Objective of this course is to get knowledge in the field of Packaging machine for liquid & granules as per industrial requirement.
4	Purpose	Student can get knowledge in field of Packaging machine for liquid & granules and make their career bright.
5	Minimum Batch size	30 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Fee	
9	Payment Schedule (Installment)	Single installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Packaging machine of both liquid and granule etc.
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	No of Hour of Theory	12 hrs.
18	No of Hour of Practical	60 hrs.

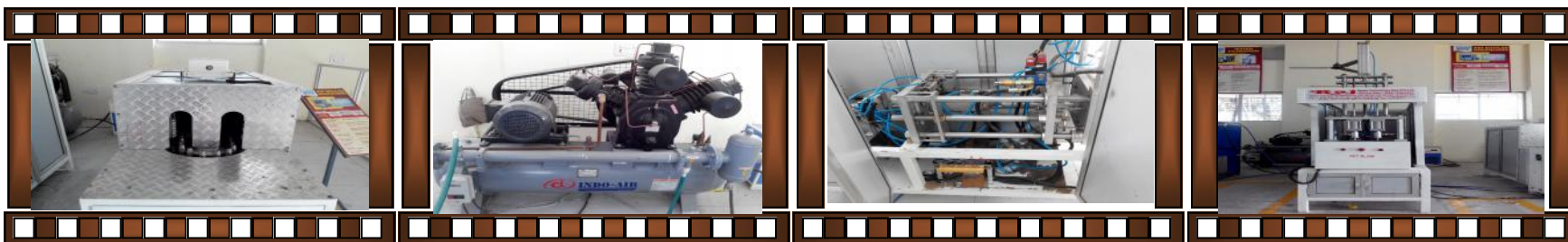


Course- Packaging machine for liquid and granules

Contents:

- Introduction to Packaging machine for liquid & granules
- Basic principles of Packaging machine for liquid & granules
- Working Principle
- Over view Packaging machine for liquid & granules machine/Equipments/Instruments
- Basic Metallurgy
- Practice
- preparation procedure techniques While operating Packaging machine for liquid & granules
- Types of operations
- Packaging machine for liquid & granules working Consumables
- Machine settings
- Demonstration of weekend activities
- Practice
- Machine handling
- Mechanical operations techniques
- Electrical operations techniques
- Practice on operational techniques
- Packaging machine for liquid & granules working defects – causes & remedies
- Safety precaution
- Practice

Duration: 3 Month



Training on **Pet bottle manufacturing**

Industrial automation, today has overcome the limitation of traditional industries by providing increase in productivity and safety, better quality, repeatability, optimization in material wastage and manpower.

1	Name of Course	Pet bottle manufacturing
2	Course duration	3 month/Weekly 2 Days
3	Objective	Objective of this course is to get knowledge in the field of Pet bottle manufacturing as per industrial requirement.
4	Purpose	Student can get knowledge in field of Pet bottle manufacturing and make their career bright.
5	Minimum Batch size	30 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Free	
9	Payment Schedule (Installment)	Single installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, PC, Lan cables etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	No of Hour of Theory	12 hrs.
18	No of Hour of Practical	60 hrs.



Course-Pet bottle manufacturing

Contents:

- Introduction to Pet bottle manufacturing
- Basic principles of Pet bottle manufacturing
- Working Principle
- Over view Pet bottle manufacturing machine/
Equipment/Instruments
- Basic Metallurgy
- Practice
- preparation procedure techniques While operat-
ing Pet bottle manufacturing
- Types of operations
- Pet bottle manufacturing working Consumables.
- Machine settings
- Demonstration of weekend activities
- Practice
- Control panel instructions
- Demonstration of weekend activities
- Practice
- operations technique
- Practice on operational techniques
- Pet bottle manufacturing working defects –
causes & remedies
- Safety precaution
- Practice

Duration: 3 Month



Training on Soya milk extraction

1	Name of Course	Soya milk extraction
2	Course duration	3 month/Weekly 2 Days
3	Objective	Objective of this course is to get knowledge in the field of Soya milk extraction as per industrial requirement.
4	Purpose	Student can get knowledge in field of Soya milk extraction and make their career bright.
5	Minimum Batch size	30 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Fee	RS 7200/-
9	Payment Schedule (Installment)	Single installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Soya milk machinery etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	NO of Hour of Theory	12 hrs.
18	No of Hour of Practical	60 hrs.



Course- Soya milk extraction

Contents:

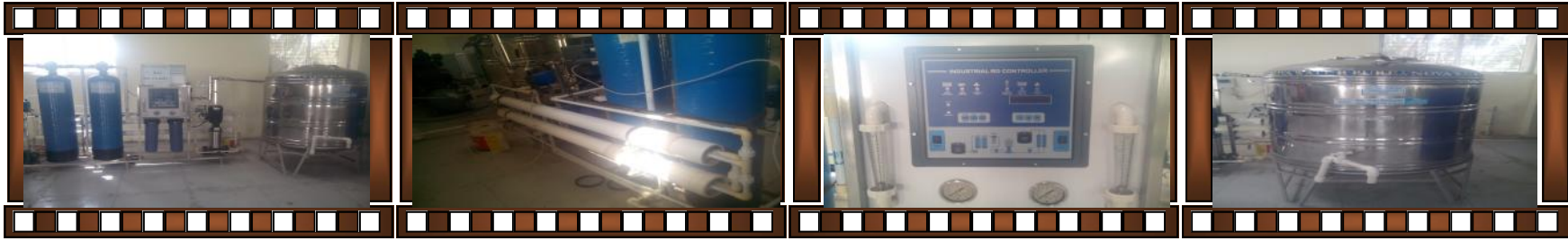
- Introduction to Soya milk extraction
- Basic principles of Soya milk extraction
- Working Principle
- Over view Soya milk extraction machine/
Equipments/Instruments
- Basic Metallurgy
- Practice
- preparation procedure techniques While operating
- Soya milk extraction
- Types of instruments
- Soya milk & tofu Consumables
- Machine settings
- Demonstration of weekend activities
- Practice
- Operating Control panel instructions
- Making of Milk & Tofu
- Practice
- Milk & Tofu operations techniques
- Forming techniques
- Practice on operational techniques
- Soya milk extraction working defects –
causes & remedies
- Safety precaution
- Practice

Duration: 3 Month



Training on **Water filtration**

1	Name of Course	Water filtration
2	Course duration	3 month/Weekly 2 Days
3	Objective	Objective of this course is to get knowledge in the field of Water filtration as per industrial requirement.
4	Purpose	Student can get knowledge in field of Water filtration and make their career bright.
5	Minimum Batch size	30 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Free	
9	Payment Schedule (Installment)	Single installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, Soldering kits, Development boards, Various Robots etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	No of Hour of Theory	42 hrs.
18	No of Hour of Practical	30 hrs.

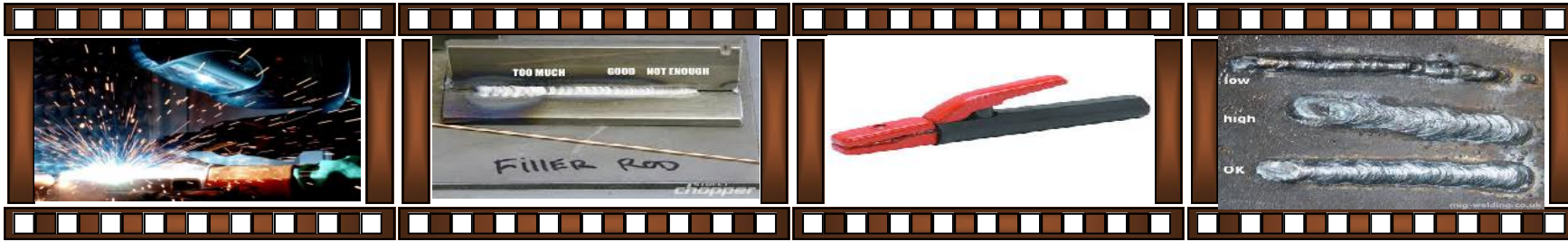


Course- Water filtration

Contents:

- Introduction of RO plant
- Raw Water Pump
- Generate The Pressure For Down The Lines System
- Pressure Sand Filter (Psf)
- The Water Is First Filtered By Pressure Sand
- Activated Carbon Filter (Acf)
- To Removed Colour, Odour From The Raw Water
- To Removed Oil & Grease From The Raw Water
- Micron Cartridge Filter (Mcf)
- Anti scalant Dosing System
- To Prevent Membrane From Scaling (Hardness)
- High Pressure Pump
- Supplying The Feed Water To Ro System At High Pressure Of 10-12 Kg/Cm²
- Ro Membrane Element
- Treated (Ro) Water
- Practice

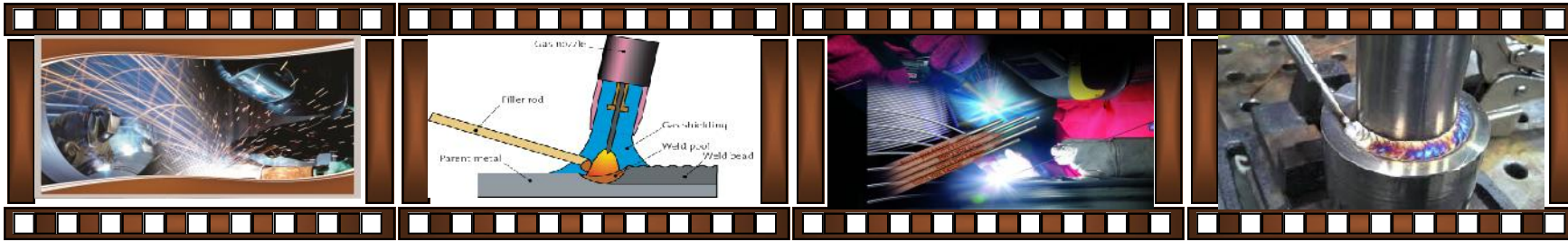
Duration: 3 Month



Training on **Welding**

Industrial automation, today has overcome the limitation of traditional industries by providing increase in productivity and safety, better quality, repeatability, optimization in material wastage and manpower.

1	Name of Course	Welding
2	Course duration	2 month
3	Objective	Objective of this course is to get knowledge in the field of Welding per industrial requirement.
4	Purpose	Student can get knowledge in field of Welding and make their career bright.
5	Minimum Batch size	20 trainees
6	Eligibility of Trainee	SSC
7	Minimum NSQF level	01
8	Total course Fee	RS 2500/-
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, different type of welding machines etc..
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	144 hrs.
17	No of Hour of Theory	84 hrs.
18	No of Hour of Practical	60 hrs.



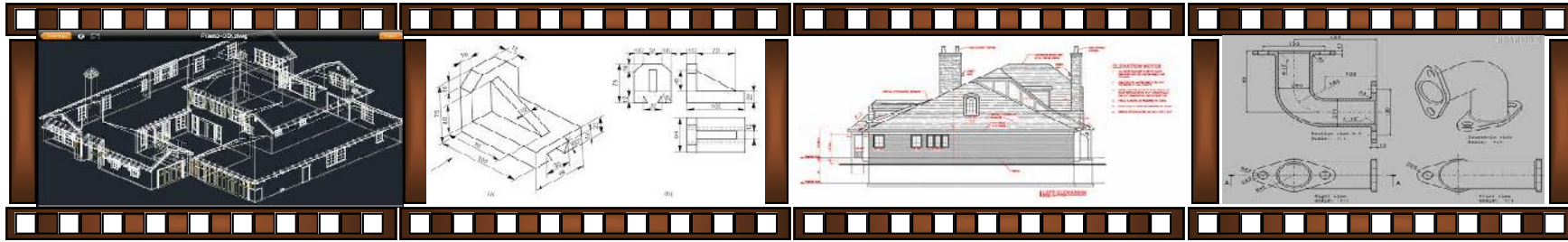
Course– Welding

Contents:

- Introduction to Arc welding
- Basic principles of Arc welding
- Working Principle
- Over view Arc welding machine/ Equipments/Instruments
- Basic Welding Metallurgy
- Practice
- Edge preparation procedure techniques
- Joint Preparation procedure
- Selection Rod & machine settings
- Machine settings
- Demonstration of weekend activities
- Practice
- Welding Symbols And drawing understanding
- Classification & Coding of welding electrodes
- Welding Consumables
- Selection of consumable
- Demonstration of weekend activities
- Practice
- Welding techniques on different positions
- Location of weld
- Welding defects – causes & remedies
- Safety precaution
- Practice
- FILLET joint edge preparation
- Important techniques
- Tips for FILLET joint
- Types of BUTT joints
- Single / double FILLET joint
- BUTT joint edge preparation
- U-joint practice
- Types of LAP joints
- LAP joint edge preparation
- J-joint practice
- V-joint practice
- DOUBLE BEVEL BUTT joint practice

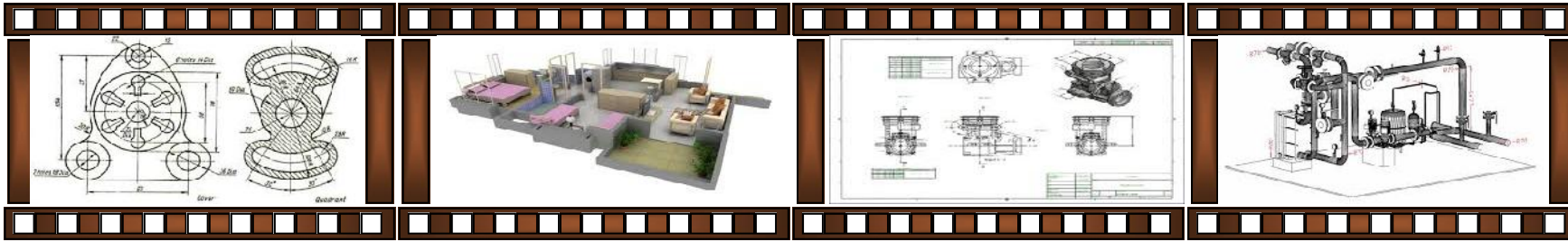
Duration: 2 Month

Fees: 2500/-



Training on AutoCAD 2D+3D

1	Name of Course	AutoCAD 2D+3D
2	Course duration	1 month
3	Objective	Objective of this course is to get knowledge in the field of AutoCAD as per industrial requirement.
4	Purpose	Student can get knowledge in field of AutoCAD and make their career bright.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	10 th Pass
7	Minimum NSQF level	05
8	Total course Fee	Rs.3500/-
9	Payment Schedule (Installment)	Single installment
10	Eligibility for Faculty	Degree in Engineering
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	72 hrs.
17	No of Hour of Theory	28 hrs.
18	No of Hour of Practical	44 hrs.



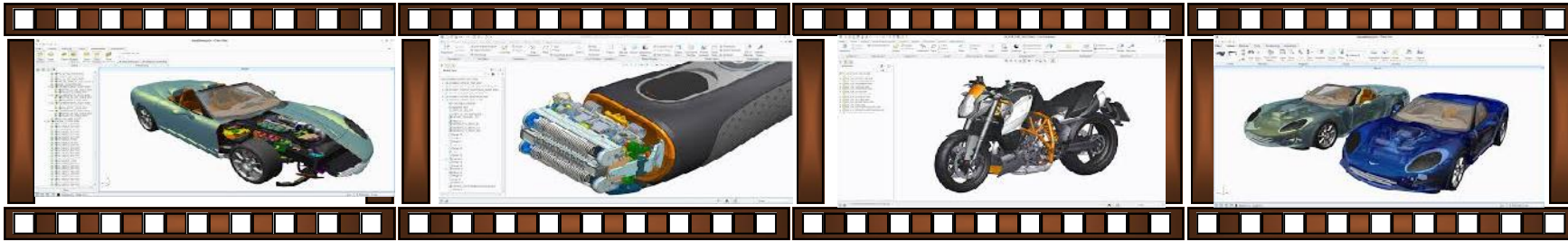
Course- AutoCAD 2D+3D

Contents:

- Introduction to AutoCAD
(Create file, Open file, Save file Layout, Co-Ordinate System, Line, Object Snap)
- Selection, Zoom, Delete
Line Type, Display Properties, Match Properties
Offset, Trim, Extend
- Rectangle, Polygon, Circle, Ellipse, Fillet, Chamfer ,Arc, Polyline, Spline
- Hatch, Gradient, Boundary
- Move, Rotate, Copy, Mirror
Stretch, Scale, Explode
- Construction Lines, Ray, Multiple Points, Divide, Measure, Region, Revision Cloud, Wipeout
- Lengthen, Edit polyline, Align, Beak, Break at Point, Join, Copy Nested objects, Delete Duplicate Objects
- Dimensions, Leader, Table, Multiline Text
Dimension Style, Tolerance and Editing Dimension
- Layer & Layer Settings , Layer Options
- Creating Block , Title Block& Template
- 3D – Modeling,
(UCS, Extrude Union, Subtract, intersect ,Revolve, Sweep, Loft)
- Polysolid, Pull/Press, Box, cylinder, Cone, Sphere, pyramid, Wedge, Torus
- Fillet Edge, Chamfer Edge, Taper Face, Offset Face
- Slice, Thicken, Shell, Extrude Face
- Move Gizmo, Rotate Gizmo, Scale Gizmo, Mirror
- Applying Material & Textures, Rendering Objects
- Layout from 3D to 2D, Dimensioning in Layout
- Practices

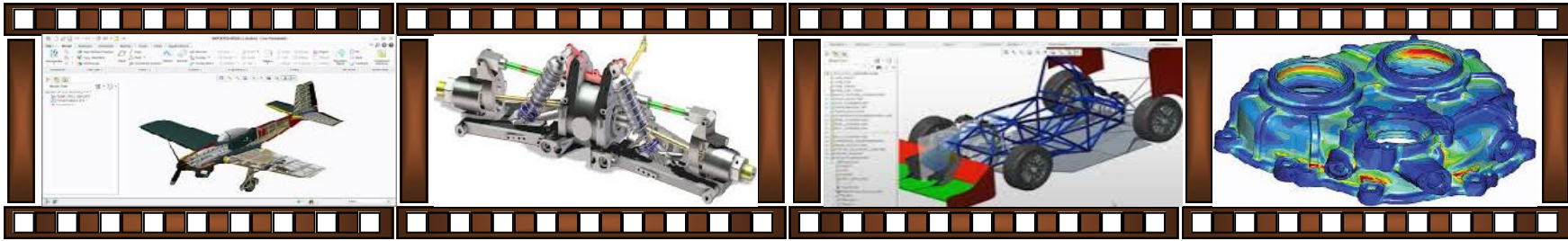
Duration: 1 Month

Fees: 3500/-



Training on **Creo 2.0 CAD**

1	Name of Course	Creo 2.0 CAD
2	Course duration	2.7 months (180 Hr.)
3	Objective	Objective of this course is to get knowledge in the field of Creo Parametric modeling & drafting as per industrial requirement.
4	Purpose	Student can get knowledge in field of Creo Parametric modeling & drafting and make their career bright.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	10 th Pass
7	Minimum NSQF level	05
8	Total course Fee	Rs. 8000/-
9	Payment Schedule (Installment)	Two installments
10	Eligibility for Faculty	Degree in Engineering
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	180 hrs.
17	No of Hour of Theory	70 hrs.
18	No of Hour of Practical	110 hrs.



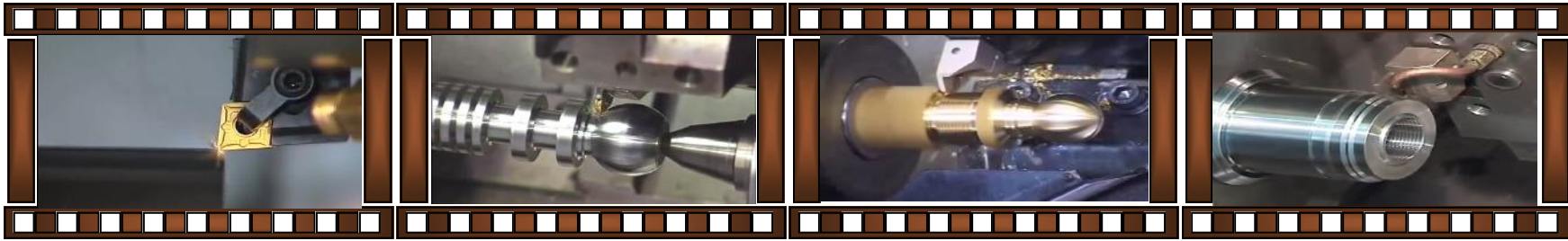
Course- Creo 2.0 CAD

Contents:

- Introduction to Creo Parametric
(Set Working Directory Create file, Open file, Save file, Layout and Navigator Mouse Buttons & View Option)
- Sketcher, Create new sketch
(Draw Line, Arc, Profile, Circle, Fillet Trim, Extend, Make corner, Dimensions, Chamfer, Rectangle, Polygon, Spline, Ellipse, Offset curve, mirror curve, Move, Rotate, Scale)
- Extrude, Revolve, Sweep, Helical Sweep
- Datum Plane, Datum CSYS
- Hole, Round, Auto Round
- Draft, Variable Pull Direction Draft, Chamfer, Corner chamfer
- Shell, Rib
- Toroidal Blend, Spinal Blend
- Swept Blend, Blend, Rotational Blend
- Pattern Geometry, Mirror, Trim, Merge, Extend, Offset, Intersect, Project, Thicken, Solidify, Wrap, Remove, Split Surface
- Flexible modeling
- Analysis
- Assembly
- Drafting
- Practices

Duration: 2 Month

Fees: 8000/-



Training on **CNC Lathe Operating & Programming**

1	Name of Course	CNC Lathe Operating & Programming
2	Course duration	2 months
3	Objective	Objective of this course is to get knowledge in the field of CNC Lathe Operating & Programming as per industrial requirement.
4	Purpose	Student can get knowledge in field of CNC Turning Operating & Programming and make their career bright.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	10 th Pass
7	Minimum NSQF level	05
8	Total course Fee	Rs. 4500/-
9	Payment Schedule (installment)	Single installment
10	Eligibility for Faculty	Degree in Engineering
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	100 hrs.
17	No of Hour of Theory	35 hrs.
18	No of Hour of Practical	65 hrs.



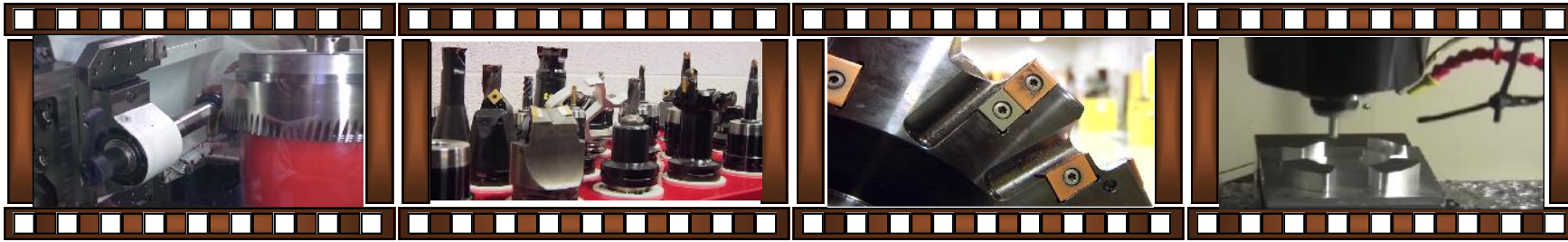
Course-CNC Lathe Operating & Programming

Contents:

- Introduction to CNC Technology
- Introduction to CNC Part Programming
- Preparation required for CNC Part Programming
- Co-ordinate system
- Incremental & absolute Dimensioning
- Practice
- Machine Axis, Machine Zero, Part Zero
- Introduction to addresses used in Programming
- G-Codes for CNC Turning
- M-Codes for CNC Turning
- Feed & Speed Calculation
- Practice
- Introduction to CNC Control Panel
- Introduction to Types of operations & relevant Cutting tools
- Programming with G00, G01, G02, G03
- CANNED CYCLE G90 – Fixed Process Cycle in Turning
- CANNED CYCLE G94 – Fixed Process Cycle in Turning
- CANNED CYCLE G92 – Threading Cycle
- CANNED CYCLE G71 – Rough Turning Cycle
- CANNED CYCLE G74 – Drilling Cycle
- CANNED CYCLE G75 - Grooving Cycle
- Tool Nose Radius Compensation – G41, G42, G40
- Practice

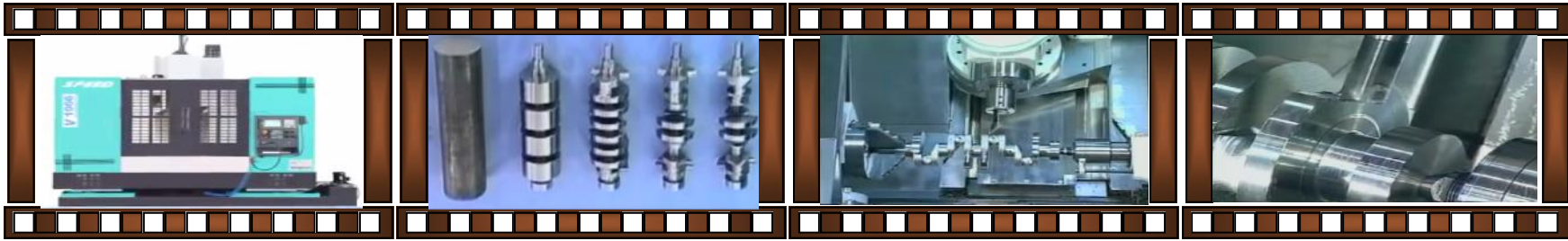
Duration: 2 Month

Fees: 4500/-



Training on **CNC Milling Operating & Programming**

1	Name of Course	CNC Milling Operating & Programming
2	Course duration	12 months
3	Objective	Objective of this course is to get knowledge in the field of CNC Milling Operating & Programming as per industrial requirement.
4	Purpose	Student can get knowledge in field of CNC Turning Operating & Programming and make their career bright.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	10 th Pass
7	Minimum NSQF level	05
8	Total course Fee	Rs. 4500/-
9	Payment Schedule (installment)	Single installment
10	Eligibility for Faculty	Degree in Engineering
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	100 hrs.
17	No of Hour of Theory	35 hrs.
18	No of Hour of Practical	65 hrs.



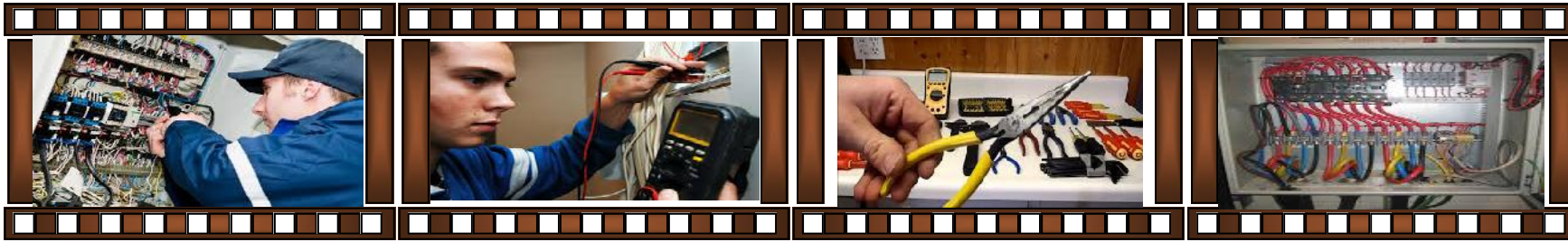
Course-CNC Milling Operating & Programming

Contents:

- Introduction to CNC Technology
- Introduction to CNC Part Programming
- Preparation required for CNC Part Programming
- Co-ordinate system
- Incremental & absolute Dimensioning
- Practice
- Machine Axis, Machine Zero, Part Zero
- Introduction to addresses used in Programming
- G-Codes
- M-Codes
- Feed & Speed Calculation
- Practice
- Introduction to CNC Control Panel
- Introduction to Types of operations & relevant Cutting tools
- Programming with G00, G01, G02, G03
- CANNED CYCLE G90
- CANNED CYCLE G94
- CANNED CYCLE G92
- CANNED CYCLE G71
- CANNED CYCLE G74
- CANNED CYCLE G75
- Tool Nose Radius Compensation
- Practice

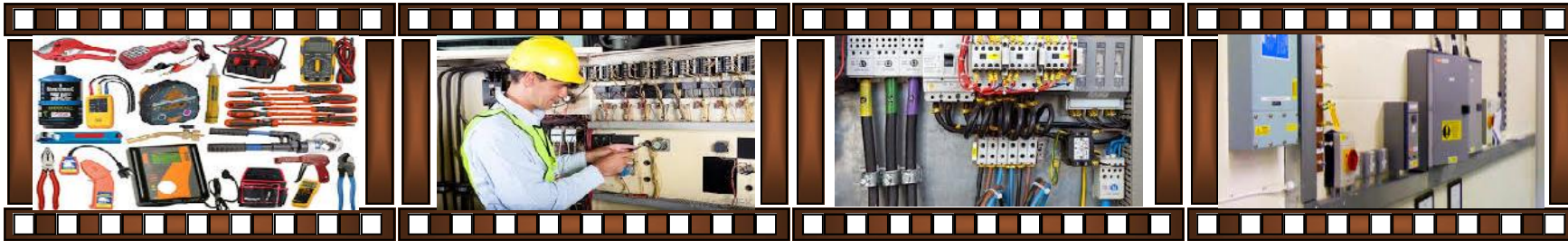
Duration: 2 Month

Fees: 4500/-



Training on **Electrician**

1	Name of Course	Electrician
2	Course duration	2 month
3	Objective	Objective of this course is to get knowledge in the field of repairing and maintenance of electrical machine, equipments.
4	Purpose	Candidate will get repairing skills and theoretical knowledge.
5	Minimum Batch size	10 trainees
6	Eligibility of Trainee	10 th /I.T.I./Diploma
7	Minimum NSQF level	05
8	Total course Fee	RS 5500/-
9	Payment Schedule (Installment)	Two installment
10	Eligibility for Faculty	Degree
11	Evaluation System	Theory & Practical
12	Test Schedule	At end of course
13	List of Consumables	White board & marker, wires, plastic tap, etc.
14	Eligibility for successful completion of Training (Attendance/Result of Periodical test)	75% Attendance & 50% Final Test Result
15	Course Contents	As given Below
16	Total No of Hours of Training	125 hrs.
17	NO of Hour of Theory	45 hrs.
18	No of Hour of Practical	80 hrs.



Course-Electrician

Contents:

- Introduction of electricity & safety
- Electrical Symbols
- Alternating Current & Direct Current
- Difference Between AC & DC
- Voltmeter, Ammeter, multimeter, Clamp meter etc.
- Connection Diagram of Voltmeter, Ammeter etc.
- Passive Component (Resistance, Induction, Capacitance)
- Calculation of Resistance, Induction, Capacitance Value
- Active Component (Diode & Transister)
- Soldering on Breadboard & PCB
- Inverter & Rectifier
- Types of Cable, Rating & Capacity of Cable
- Fuse, Types of Fuse, Capacity of Fuse
- Wiring Diagram (Series connection & Parallel Connection)
- Different Wiring Diagram (1- \emptyset , 3- \emptyset)
- Connection of electrical gadgets 1- \emptyset (Fan, Motor etc.)
- Types of Wiring (Stair case, go down)
- Types of Wiring (Cleat wiring, Conduit Wiring)
- Connection of Lamps Fluorescent Tube
- Types of Eathing
- Preparation of 1- \emptyset & 3- \emptyset Supply board, MCB, Different Rating of MCB
- Installation of 1- \emptyset & 3- \emptyset Distribution Board
- Connection of R,Y,B & MCB in 3- \emptyset Supply
- D.C. Motor & Parts
- Different types of Winding (Lap, Wave)
- Winding of 1- \emptyset motor
- Winding of 3- \emptyset motor
- D.C. Generator & Parts
- A.C. Generator & Parts
- D.C. Battery
- Starters
- Types of Starters
- Transformer Part
- Current Transformer, Potential Transformer
- Bus Bar Connection
- LT Panel
- Meter Reading, KV, KVAH, PF
- Load Calculation
- Digital meter
- Capacitor Bank
- Layout of Power Station
- Visit in Sub Station

Duration: 2 Month **Fees:** 5500/-

For your career...



NSIC-Technical Services Centre

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