

Training Calendar: 2023-2024



Bangladesh Industrial Technical Assistance Center (BITAC)

116 (Kha), Tejgaon Industrial Area, Dhaka-1208

Phone: 02-55030056

E-mail: trainingdhaka@bitac.gov.bd, Website: www.bitac.gov.bd

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1 INTRODUCTION

1.1 Background

Bangladesh Industrial Technical Assistance Center otherwise known as BITAC is the Successor to Pakistan Industrial Technical Assistance Center (PITAC). It Was Renamed BITAC after the Independence of Bangladesh. BITAC established in 1962 by merging two other productivity oriented public sector organizations namely IRDC and PIPS. With the establishment of BITAC Practice, oriented activities for productivity promotion and improvement of productivity were create through its laboratory and workshop support. The main objective of BITAC is therefore, promotion of the national economy through development of product, process and skilled manpower, BITAC has five centers in Bangladesh at Dhaka, Chattogram, Chandpur, Khulna, and Bogura.

1.2 Vision & Mission

OUR VISION

- To become the best among all technical skill human resource developers & industrial spares manufactures in all aspects.
- Empower employees for shouldering higher responsibilities resulting in job enrichment and job satisfaction.
- Undertaking various research and development program has to explore the new and innovative manufacture and use of spares parts.

OUR MISSION

- To upgrade the skill of the industrial personnel in technical and managerial fields.
- To disseminate modern technical know-how among industrial personnel through seminars, group discussions, demonstrations, publications, film show etc.
- To extend consulting services to industrial organization and industries mainly in the private sector.
- To organize program for capacity buildup in SME Sector.
- To promote productivity consciousness in the people by encouraging them to form Productivity Associations in industrial Centers etc.
- To co-operate with international and national organizations and agencies in activities for increasing industrial productivity.
- To adopt such measures, take such steps, and do all such things as may be conducive to the promotion of cordial relations between the Center and persons interested in the objectives of the Center.
- To secure the recognition of the center in Bangladesh and other foreign countries.
- In conjunction with the upgrading program and to make it more effective, the BITAC shall:
 - ✓ Assist in the design and development of jigs & fixtures gauges, mold, die, punches, tools and products (proto-type) for industries and agriculture.
 - ✓ Developed processes and tools etc, to help industries in improving the quality, increasing production, reducing cost and utilizing indigenous raw materials and to increase the scope of indigenous manufacture.
 - ✓ Conduct productivity studies in such selected plants as may be determined and recommend ways and means for improvement.
 - ✓ To do all such other lawful things as the center may think identical or conducive to the attainment of any or all the objectives of the center mentioned above.

1.3 Advisory Committee

| | |
|-------------|--|
| Chairperson | : Anwar Hossain Chowdhury Director General, BITAC. |
| Member | : Dr. Md. Jalal Uddin PEng. Director (Planning), BITAC. : Md. Abu Sayeed Khan Director (Training), BITAC. |

1.4 Editorial Committee

| | |
|-------------|---|
| Chairperson | : Md. Abu Sayeed Khan Director (Training), BITAC. |
| Member | : Dr. Engr. Mazharul Habib Additional Director (Training), Dhaka. : Md. Masum Zakaria Assistant Engineer (Training), Dhaka. : Md. Hasib Mahmud Assistant Engineer (Training), Dhaka. |

1.5 Course Conducting Committee

| | |
|--------------------|---------------------------------|
| Course Advisor | : Director General BITAC. |
| Crouse Director | : Director (Training) BITAC. |
| Crouse Coordinator | : Additional Director BITAC. |

1.6 Governing Body of BITAC

| Rank | Organization | Designation at Governing Body |
|--|--|-------------------------------|
| Secretary | Ministry of Industries | Chairman |
| Additional Secretary or Joint Secretary (BITAC Wing) | Ministry of Industries | Member |
| Joint Secretary | Finance Division (Ministry of Finance) | Member |
| Director General | Directorate of Technical Education | Member |
| Director General | Directorate of Labor & Manpower | Member |
| Director General | Bureau of Manpower, Employment And Training | Member |
| Member | National Skill Development Authority | Member |
| Executive Member | Bangladesh Investment Development Authority | Member |
| President | Bangladesh Engineering Industry Owners Association | Member |
| President | Federation of Bangladesh chambers of commerce and Industries | Member |
| Director General | Bangladesh Industrial Technical Assistance Center (BITAC) | Member Secretary |

2. SCHEDULE OF THE TECHNICAL TRAINING PROGRAM, BITAC.

2.1 Long Term Technical Training Program (Regular).

| Sl. No. | Name of the course | Course No. | Schedule | Duration (Weeks) | No. of seats |
|---------|-------------------------------|------------|----------------------------|------------------|--------------|
| 1 | Machine Shop | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 25 |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | |
| 2 | Electrical Maintenance | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 25 |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | |
| 3 | Welding | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 25 |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | |
| 4 | Machine Maintenance | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 25 |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | |
| 5 | Automobile & Auto-electricity | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 25 |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | |
| 6 | Foundry & Pattern Making | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 10 |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | |

2.2 Customized Technical Training Program.

| Sl. No. | Name of the Course | Duration (Hours) | No. of seats |
|---------|--|------------------|--------------|
| 1 | Machine Shop | 360 | 20 |
| 2 | Electrical Maintenance | 360 | 20 |
| 3 | Welding | 360 | 20 |
| 4 | Machine Maintenance | 360 | 20 |
| 5 | Automobile & Auto-electricity | 360 | 10 |
| 6 | Foundry & Pattern Making | 360 | 5 |
| 7 | Heat Treatment | 360 | 5 |
| 8 | Solid Works | 210 | 20 |
| 9 | Auto CAD (2D & 3D) | 210 | 20 |
| 10 | Plastic Technology | 210 | 6 |
| 11 | CNC Lathe Operation & Practice | 140 | 4 |
| 12 | CNC Milling Operation & Practice | 140 | 4 |
| 13 | CNC Machining Center Operation & Practice | 140 | 4 |
| 14 | Die Sink EDM & Wire Cut EDM Operation & Practice | 140 | 4 |

2.3 Technical Training Program Addressing 4IR (Customized)

| Sl. No. | Name of the Course | Duration (Hours) | No. of Seats/Course |
|---------|--|------------------|---------------------|
| 1 | 3D Printing | 120 | 5 |
| 2 | Computer Aided Engineering (CAE) | 120 | |
| 3 | Cloud Based CNC Machining Center Operation | 120 | |
| 4 | Energy Monitoring System (Installation, Operation & SCADA Visualization) | 90 | |

2.4 Short Term Technical Training Program

| Sl. No. | Name of the Course | Course No. | Schedule | Duration (Hours) | No. of seats |
|---------|-------------------------------------|------------|-----------------------------|------------------|--------------|
| 1 | Programmable Logic Controller (PLC) | 67 | 23 Jul 2023 to 03 Aug 2023 | 70 | 20 |
| | | 68 | 01 Oct 2023 to 12 Oct 2023 | | |
| | | 69 | 21 Jan 2024 to 01 Feb 2024 | | |
| | | 70 | 01 Apr 2024 to 12 Apr 2024 | | |
| 2 | Boiler Operation & Maintenance | 48 | 09 Jul 2023 to 13 Jul 2023 | 35 | 20 |
| | | 49 | 30 July 2023 to 03 Aug 2023 | | |
| | | 50 | 27 Aug 2023 to 31 Aug 2023 | | |
| | | 51 | 17 Sep 2023 to 21 Sep 2023 | | |
| | | 52 | 15 Oct 2023 to 19 Oct 2023 | | |
| | | 53 | 26 Nov 2023 to 30 Nov 2023 | | |
| | | 54 | 17 Dec 2023 to 21 Dec 2023 | | |
| | | 55 | 01 Apr 2024 to 05 Apr 2024 | | |
| | | 56 | 06 May 2024 to 10 May 2024 | | |

2.5 Industrial Attachment Technical Training Program (As per stakeholders' desire)

3. LONG TERM TECHNICAL TRAINING PROGRAM (REGULAR), BITAC, DHAKA.

3.1 Machine Shop

| | | |
|----------------------|---|--|
| Name of the Course | : | Machine Shop |
| Duration | : | 14 Weeks |
| Schedule | : | 20 Aug 2023 to 23 Nov 2023, 03 Dec 2023 to 08 Mar 2024, and 18 Mar 2024 to 21 Jun 2024; For course no: 170, 171 and 172 respectively. |
| Nomination deadline | : | 17 Aug 2023, 30 Nov 2023 and 15 Mar 2024; For course no: 170, 171 and 172 respectively. |
| Number of Seats | : | 25 |
| Course fee | : | 5,000/- |
| Target Group | : | Candidate having SSC or equivalent certificate along with technical experience, Merchant Navy Cadets, Defense civilian staff (army, air force and navy), TTC/VTI certificate holders, Diploma in Engineering. |
| Course Objects | : | <p>Square, Acme, Buttress and trapezoid thread cutting, Form turning with Form tool and by combined longitudinal and Cross feed, Copy turning; Cam shaft, Crank shaft turning; Dee hole drilling, boring and Ramming to sizes, Gear Cutting; Helical, Bevel and worm gear; Cam milling; Grinding on punch shaft to standard dimensional accuracy and surface finishing; Effect to temperature of surface finish.</p> <ul style="list-style-type: none"> • Understanding of mechanical engineering drawing; • Informing different machining parameters; • Identification on different metals. • Introducing design of tools/cutters and Duration; • Make Capable of measuring using different measuring instrument; • Awareness of safety |
| Course Contents | : | <ul style="list-style-type: none"> • Technical Drawing • Basic Tool Design • Safety & Maintenance • Shop Theory • Measuring Tools, Fits & Tolerances • Related Math. • Engineering Materials • Heat-Treatment |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Written test • Oral test • Overall performance. |

3.2 Electrical Maintenance

| | | |
|----------------------|---|---|
| Name of the Course | : | Electrical Maintenance |
| Duration | : | 14 Weeks |
| Schedule | : | 20 Aug 2023 to 23 Nov 2023, 03 Dec 2023 to 08 Mar 2024 and 18 Mar 2024 to 21 Jun 2024; For course no: 170, 171 and 172 respectively. |
| Nomination deadline | : | 17 Aug 2023, 30 Nov 2023 and 15 Mar 2024; For course no: 170, 171 and 172 respectively. |
| Number of Seats | : | 25 |
| Course fee | : | 8,000/- |
| Target Group | : | Candidate having SSC or equivalent certificate along with technical experience, Merchant Navy Cadets, Defense civilian staff (army, air force and navy), TTC/VTI certificate holders, Diploma in Engineering. |
| Course Objects | : | <ul style="list-style-type: none"> • To develop skill in domestic and industrial wiring; • To make control circuit and detecting faults and its maintenance; • To identify various electronic components and understanding electronic circuit and making circuit. • Detecting machine faults, machine winding and is repairing and maintenance; • Able of measure using various measuring tools and connect measuring instrument to a circuit. |
| Course Contents | : | <ul style="list-style-type: none"> • Electrical Wiring • Control System • Industrial Electronics • Electrical Machine • Measuring Tools & Electrical Instruments. |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Written test • Oral test • Overall performance. |

3.3 Welding

| | |
|----------------------|--|
| Name of the Course | : Welding |
| Duration | : 14 Weeks |
| Schedule | : 20 Aug 2023 to 23 Nov 2023, 03 Dec 2023 to 08 Mar 2024 and 18 Mar 2024 to 21 Jun 2024; For course no: 170, 171 and 172 respectively. |
| Nomination deadline | : 17 Aug 2023, 30 Nov 2023 and 15 Mar 2024; For course no: 170, 171 and 172 respectively. |
| Number of Seats | : 25 |
| Course fee | : 7,500/- |
| Target Group | : Candidate having SSC or equivalent certificate along with technical experience, Merchant Navy Cadets, Defense civilian staff (army, air force and navy), TTC/VTI certificate holders, Diploma in Engineering. |
| Course Objects | : <ul style="list-style-type: none"> ● Introduction to different types of welding processes; ● Identification of different metals; ● Preparation of different types of welding joints; ● Welding practice at positions; ● Introducing different welding Parameter ● Skill development in arc welding technique and gas welding technique; ● Detecting welding defects and trouble shooting ● Designing and making welding jigs fixtures; ● Learning welding symbols; ● Make capable of inspection and testing of weld joints; ● Safety awareness. |
| Course Contents | : <ul style="list-style-type: none"> ● Welding Theory on Arc Welding ● Heat Treatment ● Gas Welding/Cutting ● Safety & Maintenance ● Engineering Materials ● Technical Drawing Reading ● Welding Hand tools/Measuring Tools. |
| Training Methodology | : <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> ● Observation ● Question and answer ● Individual exercise ● Written test ● Oral test ● Overall performance. |

3.4 Automobile & Auto-electricity

| | |
|----------------------|---|
| Name of the Course | : Automobile & Auto-electricity |
| Duration | : 14 Weeks |
| Schedule | : 20 Aug 2023 to 23 Nov 2023, 03 Dec 2023 to 08 Mar 2024 and 18 Mar 2024 to 21 Jun 2024; For course no: 170, 171 and 172 respectively. |
| Nomination deadline | : 17 Aug 2023, 30 Nov 2023 and 15 Mar 2024; For course no: 170, 171 and 172 respectively. |
| Number of Seats | : 10 |
| Course fee | : 5,000/- |
| Target Group | : Candidate having SSC or equivalent certificate along with technical experience, Merchant Navy Cadets, Defense civilian staff (army, air force and navy), TTC/VTI certificate holders, Diploma in Engineering. |
| Course Objects | : <ul style="list-style-type: none"> ● To introduce hand tools, machine tools and different measuring instruments; ● To make capable of major overhauling of auto engine; electrical & electronic parts. ● Troubles shooting and corrective measures; ● Dismantling and assembling of gear box and clutch system; ● To acquaint the participants with auto parts machining, denting and painting; ● Repairing and maintenance of suspension and brake system; ● Selecting appropriate blue oil, fuel & tires for different types vehicles. |
| Course Contents | : <ul style="list-style-type: none"> ● Basic Engine ● Fundamental-Electrical and electronic system ● Power Transmission System ● Auto-Parts Machining, Denting and painting ● Measuring Tools ● Suspension, Break, Fuel & Fuel Injection Systems. |
| Training Methodology | : <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration ● Model demonstration ● Team Work ● Report writing |
| Evaluation System | : <ul style="list-style-type: none"> ● Observation ● Question and answer ● Individual exercise ● Written test ● Oral test ● Overall performance. |

3.5 Machine Maintenance

| | | |
|----------------------|---|--|
| Name of the Course | : | Machine Maintenance |
| Duration | : | 14 Weeks |
| Schedule | : | 20 Aug 2023 to 23 Nov 2023, 03 Dec 2023 to 08 Mar 2024 and 18 Mar 2024 to 21 Jun 2024; For course no: 170, 171 and 172 respectively. |
| Nomination deadline | : | 17 Aug 2023, 30 Nov 2023 and 15 Mar 2024; For course no: 170, 171 and 172 respectively. |
| Number of Seats | : | 25 |
| Course fee | : | 5,000/- |
| Target Group | : | Candidate having SSC or equivalent certificate along with technical experience, Merchant Navy Cadets, Defense civilian staff (army, air force and navy), TTC/VTI certificate holders, Diploma in Engineering. |
| Course Objects | : | <ul style="list-style-type: none"> • Introduction to different machine tools such as lathe machine, milling machine, grinding machine, boring machine, planer machine, drill machine, hydraulic and mechanical press machine, rolling machine, shear machine; • Acquainting different types of mechanical compound and driving System; • Understanding of blue print reading; • Make capable of disassembly and assembly of different machine tools and components; • Replacement of lubricants, cutting oil, O-ring, gasket etc; • Awareness of safety and maintenance. |
| Course Contents | : | <ul style="list-style-type: none"> • Machine Elements • Mechanical Component and Driving System • General Maintenance • Technical Drawing Reading • Hand tools/Measuring Tools • Safety & Maintenance. |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Written test • Oral test • Overall performance. |

3.6 Foundry & Pattern Making

| | | |
|----------------------|---|--|
| Name of the Course | : | Foundry & Pattern Making |
| Duration | : | 14 Weeks |
| Schedule | : | 20 Aug 2023 to 23 Nov 2023, 03 Dec 2023 to 08 Mar 2024 and 18 Mar 2024 to 21 Jun 2024; For course no: 170, 171 and 172 respectively. |
| Nomination deadline | : | 17 Aug 2023, 30 Nov 2023 and 15 Mar 2024; For course no: 170, 171 and 172 respectively. |
| Number of Seats | : | 05 |
| Course fee | : | 5,000/- |
| Target Group | : | Candidate having SSC or equivalent certificate along with technical experience, Merchant Navy Cadets, Defense civilian staff (army, air force and navy), TTC/VTI certificate holders, Diploma in Engineering. |
| Course Objects | : | <ul style="list-style-type: none"> • To operate induction furnace, cupola furnace, tilting furnace, pit furnace, coke bed furnace, sand mixing machine, overhead crane, core drier, and use different hand tools etc.; • Understanding blue print reading • Preparation of sand for mold and core making, • Making mold/core, pasting, metal melting, fettling etc.; • Identifying the different metals and alloys; • Melting different metals, handling the liquid metal and purring the liquid metal into the mold cavity; • Taking different measurement using different measuring instruments; • Introducing the heat treatment processes. |
| Course Contents | : | <ul style="list-style-type: none"> • Pattern Making • Sand mold Preparation & Practices. • Different types of furnaces • Melting Processes • Safety & Maintenance • Engineering Materials • Technical Drawing & Reading • Welding Hand tools/Measuring Tools. • Heat-Treatment • Casting processes • Alloying of Metals |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Written test • Oral test • Overall performance. |

4 Technical Training Program Addressing 4IR (Customized)

4.1 Computer Aided Engineering (CAE)

| | | |
|----------------------|---|---|
| Name of the Course | : | Computer Aided Engineering (CAE) |
| Duration | : | 4 Weeks (120 Hours) |
| Schedule | : | 20 Aug 2023 to 14 Sep 2023, 26 Nov 2023 to 21 Dec 2023 and 11 Mar 2024 to 05 April 2024; For course no: 4 th , 5 th and 6 th respectively. |
| Nomination Deadline | : | 17 Aug 2023, 23 Nov 2023 and 08 Mar 2024; For course no: 4 th , 5 th and 6 th respectively. |
| Number of Seats | : | 5 |
| Course Fee | : | 7500/- |
| Target Group | : | B.Sc in Engineering, Diploma in Engineering, or equivalent certificate with technical experience and computer literacy |
| Course Objects | : | <ul style="list-style-type: none"> • To design 3D object for CNC manufacturing using CAD software • To operate the VMC with all recommended settings for manufacturing 3D object • To set up static stress simulation |
| Course Contents | : | <ul style="list-style-type: none"> • 3D Part modelling using Solid works • Generating CNC toolpath using Master CAM • CNC Programming for vertical machining center (VMC) • Introduction to engineering simulation • Introduction to Cloud based CAD software (Fusion 360) |
| Training Methodology | : | <ul style="list-style-type: none"> • Classroom lecture • Group Discussion • Practical Exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Attendance • Oral Question and Answer • Individual Exercise • Written Test • Portfolio |

4.2 3D Printing

| | | |
|----------------------|---|---|
| Name of the Course | : | 3D Printing |
| Duration | : | 4 Weeks (120 Hours) |
| Schedule | : | 20 Aug 2023 to 14 Sep 2023, 26 Nov 2023 to 21 Dec 2023 and 11 Mar 2024 to 05 April 2024; For course no: 4 th , 5 th and 6 th respectively. |
| Nomination Deadline | : | 17 Aug 2023, 23 Nov 2023 and 08 Mar 2024; For course no: 4 th , 5 th and 6 th respectively. |
| Number of Seats | : | 5 |
| Course Fee | : | 5000/- |
| Target Group | : | B.Sc in Engineering, Diploma in Engineering, or equivalent certificate with technical experience and computer literacy |
| Course Objects | : | <ul style="list-style-type: none"> • To design 3D object for 3D Printing in CAD software • To install 3D Printer and all necessary accessories • To troubleshoot common 3D Printing issues • To use slicing software and learn G-code for 3D printers |
| Course Contents | : | <ul style="list-style-type: none"> • 3D Part modelling using Solid works • Detailed discussion on slicing software for FDM 3D Printers like Ultimaker Cura and Simplify 3D • Hands-on practice on 3D Printer installation, maintenance and operation |
| Training Methodology | : | <ul style="list-style-type: none"> • Classroom lecture • Group Discussion • Practical Exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Attendance • Oral Question and Answer • Individual Exercise • Written Test • Portfolio |

4.3 Cloud Based CNC Machining Center Operation

| | |
|----------------------|--|
| Name of the Course | : Cloud Based CNC Machining Center Operation |
| Duration | : 4 Weeks (120 Hours) |
| Schedule | : 20 Aug 2023 to 14 Sep 2023, 26 Nov 2023 to 21 Dec 2023 and 11 Mar 2024 to 05 April 2024; For course no: 4 th , 5 th and 6 th respectively. |
| Nomination Deadline | : 17 Aug 2023, 23 Nov 2023 and 08 Mar 2024; For course no: 4 th , 5 th and 6 th respectively. |
| Number of Seats | : 5 |
| Course Fee | : 7500/- |
| Target Group | : B.Sc in Engineering, Diploma in Engineering, or equivalent certificate with technical experience and computer literacy |
| Course Objects | : <ul style="list-style-type: none"> • To design a 3D object for CNC manufacturing in CAD software • To operate the VMC with all recommended settings for manufacturing a 3D object • To use production monitoring software to track factory production and efficiency. |
| Course Contents | : <ul style="list-style-type: none"> • 3D Part modelling using Solid works • Generating CNC toolpath using Master CAM • CNC Programming for vertical machining center (VMC) • Introduction to cloud-based production monitoring software for CNC |
| Training Methodology | : <ul style="list-style-type: none"> • Classroom lecture • Group Discussion • Practical Exercise • Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> • Attendance • Oral Question and Answer • Individual Exercise • Written Test • Portfolio |

4.4 Electrical Energy Monitoring System (Installation, Operation & SCADA Visualization)

| | |
|----------------------|---|
| Name of the Course | : Electrical Energy Monitoring System (Installation, Operation & SCADA Visualization) |
| Duration | : 3 Weeks (90 Hours) |
| Schedule | : 20 Aug 2023 to 07 Sep 2023, 26 Nov 2023 to 14 Dec 2023 and 11 Mar 2024 to 30 Mar 2024; For course no: 4 th , 5 th and 6 th respectively. |
| Nomination Deadline | : 17 Aug 2023, 23 Nov 2023 and 08 Mar 2024; For course no: 4 th , 5 th and 6 th respectively. |
| Number of Seats | : 5 |
| Course Fee | : 7500/- |
| Target Group | : B.Sc in Engineering, Diploma in Engineering, or equivalent certificate with technical experience and computer literacy |
| Course Objects | : <ul style="list-style-type: none"> • To Install Energy Monitoring Devices • To Perform System Wiring of Electrical & Communication network of Electrical Energy Monitoring • To Configuration Multifunction Energy Meter • To Configuration Main PLC CPU of Energy Monitoring • To Configuration PC SCADA of Energy Monitoring • To Configure Network devices of Energy Monitoring • To Configure Web and Mobile Client of Energy Monitoring • To Monitor and Data Logging to PC SCADA Of energy parameters |
| Course Contents | : <ul style="list-style-type: none"> • Information and specifications of Energy Monitoring Software • PLC, IIoT Gateway, Multifunctional Energy Meter and MODBUS RTU Manual • Install mobile, desktop SCADA monitoring application • Monitoring Application Configuration on SCADA PC. • Establish PLC and monitoring app communication. • Configuration of IP Address and Remote Monitoring System • Configuration of API key Remote Monitoring of Energy Monitoring System • Configuration of User ID and password Remote Monitoring of Energy Monitoring System • Configuration VPN & Talk 2M web access Remote Monitoring of Energy Monitoring System • Configuration of WAN IP Remote Monitoring of Energy |
| Training Methodology | : <ul style="list-style-type: none"> • Classroom lecture • Practical Exercise • Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> • Attendance • Oral Question and Answer • Individual Exercise |

5. Customized Technical Training Program.

5.1 Heat Treatment

| | | |
|----------------------|---|---|
| Name of the Course | : | Heat Treatment |
| Duration | : | 12 Weeks (360 Hours) |
| Schedule | : | As per Discussion |
| Nomination deadline | : | As per Demand. |
| Number of Seats | : | 05 |
| Course fee | : | 6,000/- |
| Target Group | : | Candidate having SSC or equivalent certificate along with technical experience, Merchant Navy Cadets, Defense civilian staff (army, air force and navy), TTC/VTI certificate holders, Diploma in Engineering. |
| Course Objects | : | <ul style="list-style-type: none"> • Demonstration and Duration on Annealing Normalizing, Hardening & Tempering. • Introduction to different types of heat treatment furnaces; • Acquainting with different cooling media used for different metals and their alloys; • Identification of different type of metals; • Demonstration of quenching technique; • Duration hardness measurement; • Preparing carburizing compound; • Demonstration on packaging of job into carburizing compound. • Awareness of safety. |
| Course Contents | : | <ul style="list-style-type: none"> • Safety & Maintenance • Engineering materials • Fundamental of Heat Treatment • Furnace Design |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Written test • Overall performance. • Oral Test |

5.2 CNC Lathe Operation & Practice

| | | |
|----------------------|---|---|
| Name of the Course | : | CNC Lathe Operation & Practice |
| Duration | : | 04 Weeks (140 Hours) |
| Schedule | : | As per Discussion. |
| Nomination deadline | : | As per Demand. |
| Number of Seats | : | 04 |
| Course fee | : | 5,000/- |
| Target Group | : | BSc. in Engineering, Diploma in Engineering TTC/HSC (Voc) |
| Course Objects | : | <ul style="list-style-type: none"> • In depth exploration of ISO as related to lathe operation; • Detail lessons ranging from basic advanced programming; techniques using ISO and a representative lathe CNC control. • Hands on machining practice under real-life shop Environment. |
| Course Contents | : | <ul style="list-style-type: none"> • Introduction & Basic programming • ISO Code (G & M code) • Machine parameter & Function. • Different operation & ramming. |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Oral test • Overall performance. |

5.3 CNC Milling Operation & Practice

| | | |
|----------------------|---|--|
| Name of the Course | : | CNC Milling Operation & Practice |
| Duration | : | 04 Weeks (140 Hours) |
| Schedule | : | As per Discussion. |
| Nomination deadline | : | As per Demand. |
| Number of Seats | : | 04 |
| Course fee | : | 5,000/- |
| Target Group | : | B.Sc. in Engineering, Diploma in Engineering TTC/HSC (Voc) |
| Course Objects | : | <ul style="list-style-type: none"> • In depth exploration of ISO as related to milling; • Detail Lessons ranging from basic to advanced programming; techniques using ISO and a representative milling CNC control (Haidenheim TNC-310); • Hands on machining practice under real-life shop environment |
| Course Contents | : | <ul style="list-style-type: none"> • Introduction & Basic programming. • ISO Code (G & M code) • Machine parameter & Function. • Different operation & ramming. |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Oral test • Overall performance. |

C 5.4 CNC Machining Center Operation & Practice

| | | |
|----------------------|---|--|
| Name of the Course | : | CNC Machining Center Operation & Practice |
| Duration | : | 04 Weeks (140 Hours) |
| Schedule | : | As per Discussion. |
| Nomination deadline | : | As per Demand. |
| Number of Seats | : | 04 |
| Course fee | : | 7,500/- |
| Target Group | : | BSc. in Engineering, Diploma in Engineering TTC/HSC (Voc) |
| Course Objects | : | <ul style="list-style-type: none"> • In depth exploration of ISO as related to milling and drilling oriented operations; • Detail Lessons ranging from basic to advanced programming; techniques using ISO and a representative multi-axis machining center CNC control (Fanuc-21); (Haidenheim TNC-310); • Hands on machining practice under real-life shop Environment. |
| Course Contents | : | <ul style="list-style-type: none"> • Introduction & Basic programming. • ISO Code (G & M code) • Machine parameter & Function. • Different operation & ramming. |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Oral test • Overall performance. |

5.5 Die Sink EDM & Wire Cut EDM Operation & Practice

| | | |
|----------------------|---|--|
| Name of the Course | : | Die Sink EDM & Wire Cut EDM Operation & Practice |
| Duration | : | 04 Weeks (140 Hours) |
| Schedule | : | As per Discussion. |
| Nomination deadline | : | As per Demand. |
| Number of Seats | : | 04 |
| Course fee | : | 7,500/- |
| Target Group | : | BSc. in Engineering, Diploma in Engineering TTC/HSC (Voc) |
| Course Objects | : | <ul style="list-style-type: none"> • Understanding of EDM process and factors involved; • Rendering knowledge on die-sink & wire cut EDM machines, their components and control systems; • Acquaintance with electrode (Properties, materials and machining), dielectric fluids (Properties, function); • Programming with ISO codes and a representative control language (Robostar); • Use of CAM and Simulation to facilitate programming; • Making workable mold cavities, dies and punches using die-sink & wire-cut EDM process. |
| Course Contents | : | <ul style="list-style-type: none"> • Basic programming (wire cut) & operation • Basic operation • Application operation • NC programming. • My cam (software). |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and answer • Individual exercise • Oral test • Overall performance. |

5.6 Plastic Technology

| | | |
|----------------------|---|--|
| Name of the Course | : | Plastic Technology |
| Duration | : | 04 Weeks (140 Hours) |
| Schedule | : | As per Discussion. |
| Nomination deadline | : | As per Demand. |
| Number of Seats | : | 05 |
| Course fee | : | 4,000/- |
| Target Group | : | Entrepreneur, technical staff working in the Plastic processing industries, TTC/VTI, Disabilities. |
| Course Objects | : | <ul style="list-style-type: none"> • To operate injection molding machine, compression molding machine, vacuum forming machine, extruder machine, blow molding and the plastic machinery; • Usage and maintenance of plastic mold; • Selection of appropriate plastic materials for products; • Maintenance and controlling of plastic machinery; • Testing procedure of plastic. |
| Course Contents | : | <ul style="list-style-type: none"> • Plastic materials • Plastic Testing • Plastic Processing machinery • Mold making • Heat Treatment • Electroplating • Machine Control System and Maintenance. |
| Training Methodology | : | <ul style="list-style-type: none"> • Class-room lecture • Group discussion • Practical exercise • Case study • Industrial visit. |
| Evaluation System | : | <ul style="list-style-type: none"> • Observation • Question and Answer • Individual exercise • Oral test • Overall performance. |

5.7 Auto CAD (2D & 3D)

| | | |
|----------------------|---|--|
| Name of the Course | : | Auto CAD (2D & 3D) |
| Duration | : | 06 Weeks (210 Hours) |
| Schedule | : | 15 Oct 2023 to 23 Nov 2023, 28 Jan 2023 to 08 Mar 2024 and 13 May 2024 to 21 Jun 2024; For course no: 170, 171 and 172 respectively. |
| Nomination deadline | : | 12 Oct 2023, 25 Jan 2023 and 10 May; For course no: 170, 171 and 172 respectively. |
| Number of Seats | : | 20 |
| Course fee | : | 7,500/- |
| Target Group | : | B.Sc in Engineering, Diploma in Engineering, TTC/ HSC (Voc) |
| Course Objects | : | <ul style="list-style-type: none"> ● Understanding and Duration of working and assembly drawing; ● Introducing the importance of computer aided design (CAD); ● Male capable of computer aided designing. |
| Course Contents | : | <ul style="list-style-type: none"> ● Mechanical Drafting ● Auto CAD-2D ● Auto CAD-3D ● Component drawing |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Individual exercise ● Oral test ● Overall performance. |

5.8 Solid Works

| | | |
|----------------------|---|---|
| Name of the Course | : | Solid works |
| Duration | : | 06 Weeks (210 Hours) |
| Schedule | : | As per Discussion. |
| Nomination Deadline | : | As per Demand. |
| Number of Seats | : | 20 |
| Course fee | : | 7,500/- |
| Target Group | : | BSc. in Engineering, Diploma in Engineering, TTC/ HSC (Voc) |
| Course Objects | : | <ul style="list-style-type: none"> ● Understanding and Duration of working and assembly drawing; ● Introducing the importance of computer aided design (CAD); ● Learn about innovation of design and design modification. ● Know about the application of solid works drawing |
| Course Contents | : | <ul style="list-style-type: none"> ● Mechanical Drafting ● Solid works-2D ● Solid works-3D ● Assembly drawing ● Special Fixture drawing |
| Training Methodology | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Individual exercise ● Oral test ● Overall performance. |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Individual exercise ● Oral test ● Overall performance. |

6. SHORT TERM TECHNICAL TRAINING PROGRAM BITAC, DHAKA.
6.1 Programmable Logic Controller (PLC)

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|----------------------|---|
| Name of the Course | : Programmable Logic Controller (PLC) |
| Duration | : 02 Weeks (70 Hours) |
| Schedule | : 23 Jul 2023 to 03 Aug 2023, 01 Oct 2023 to 12 Oct 2023, 21 Jan 2024 to 01 Feb 2024 and 01 Apr 2024 to 12 Apr 2024; For course no: 67, 68, 69 and 70 respectively. |
| Nomination Deadline | : 20 Jul 2023, 27 Sep 2023, 18 Jan 2024 and 29 Mar 2024; For course no: 67, 68, 69, 70 and 71 respectively. |
| Number of Seats | : 20 |
| Course fee | : 7,500/- |
| Target Group | : Candidates having BSc. in Engineering and Graduation in Applied Physics, Diploma in Engineering |
| Course Objects | : <ul style="list-style-type: none"> ● To describe functions and uses of PLC ● To develop PLC program for industrial process ● To modify existing Really Control System into PLC System ● To install PLC system in a process plant ● To maintain and troubleshoot the PLC system. |
| Course Contents | : <ul style="list-style-type: none"> ● Introduction to PLC ● Conventional Relay Control System ● Functional description of PLC ● Basic function block of PLC ● Introduction to programming ● Sensors & Actuators ● Relay types Instructions ● Timer & Counter Instruction ● Loop creating sequencer Instruction ● Process operation by PLC at BITAC pilot plant |
| Training Methodology | : <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Industrial visit ● Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> ● Observation ● Question and answer ● Individual exercise ● Oral test ● Overall performance. |

6.2 Boiler Operation and Maintenance

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|----------------------|--|
| Name of the Course | : Boiler Operation and Maintenance |
| Duration | : 01 Week (35 Hours) |
| Schedule | : 09 Jul 2023 to 13 Jul 2023, 30 July 2023 to 03 Aug 2023, 27 Aug 2023 to 31 Aug 2023, 17 Sep 2023 to 21 Sep 2023, 15 Oct 2023 to 19 Oct 2023, 26 Nov 2023 to 30 Nov 2023, 17 Dec 2023 to 21 Dec 2023, 01 Apr 2024 to 05 Apr 2024 and 06 May 2024 to 10 May 2024; For Course no: 48, 49, 50, 51, 52,53,54,55 and 56 respectively. |
| Nomination deadline | : 06 Jul 2023, 27 Jul 2023, 24 Aug 2023, 14 Sep 2023, 12 Oct 2023, 23 Nov 2023,14 Dec 2023, 29 Mar 2024 and 03 May 2024; For Course no: 48, 49, 50, 51, 52,53,54,55 and 56 respectively. |
| Number of Seats | : 20 |
| Course fee | : 3,500/- |
| Target Group | : Entrepreneur, Technical staffs working in the industries like Sugar Mills, Textiles, Power Plant passed at least Class eight pass/equivalent. |
| Course Objects | : <ul style="list-style-type: none"> ● Skill development on Boiler; ● Developing knowledge on Acts, rules and regulations; ● Awareness on Safety and maintenance. |
| Course Contents | : <ul style="list-style-type: none"> ● Water circuit ● Fuel circuit ● Boiler construction ● Boiler Maintenance ● Safety ● Troubleshooting ● Act, rules & regulations ● Inspection & regulations procedure ● Control system |
| Training Methodology | : <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

7. Skills for Employment Investment Program (SEIP), BITAC- Dhaka, Khulna and Bogura.

7.1 Machine Shop Practice

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|----------------------|---|
| Name of the Course | : Machine Shop Practice |
| Duration | : 360 Hours |
| Schedule | : 03 Sep 2023 to 30 Nov 2023; For Batch no: 8 th at BITAC- Dhaka . 16 Jul 2023 to 10 Oct 2023 and 03 Sep 2023 to 28 Nov 2023; For Batch no: 8 th and 9 th respectively at BITAC- Khulna . 16 Jul 2023 to 10 Oct 2023 and 03 Sep 2023 to 28 Nov 2023; For Batch no: 8 th and 9 th respectively at BITAC-Bogura . |
| Application deadline | : 23 Aug 2023; For Batch no: 8 th at BITAC- Dhaka 13 July 2023 and 30 Aug 2023; For Batch no: 8 th and 9 th respectively at BITAC-Khulna 13 July 2023 and 30 Aug 2023; For Batch no: 8 th and 9 th respectively at BITAC-Bogura . |
| Number of Seats | : 30 |
| Course Fee | : Free |
| Target Group | : Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : <ul style="list-style-type: none"> ● To perform Computations Using Basic Mathematical Concepts ● To apply Occupational Health and Safety (OHS) Practices in the Workplace ● To interpret Technical Drawings and Plans ● Carry out Bench Working Operations ● To perform Drilling, Lathe, Milling, Shaper and Precision Grinding Machine Operations |
| Course Contents | : <ul style="list-style-type: none"> ● To operate in a Self-Directed Team ● To communicate in English in the Workplace ● To perform Computations Using Basic Mathematical Concepts ● To work with Mechanical Hand & Power Tool ● Carry Out Precision Checks & Measurements ● To apply Quality System and Procedures |
| Training Methodology | : <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

7.2 Electrical Installation and Maintenance

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|----------------------|---|
| Name of the Course | : Electrical Installation and Maintenance |
| Duration | : 360 Hours |
| Schedule | : 03 Sep 2023 to 30 Nov 2023; For Batch no: 8 th at BITAC- Dhaka . 16 Jul 2023 to 10 Oct 2023 and 03 Sep 2023 to 28 Nov 2023; For Batch no: 8 th and 9 th respectively at BITAC- Khulna . 16 Jul 2023 to 10 Oct 2023 and 03 Sep 2023 to 28 Nov 2023; For Batch no: 8 th and 9 th respectively at BITAC-Bogura . |
| Application deadline | : 23 Aug 2023; For Batch no: 8 th at BITAC- Dhaka 13 July 2023 and 30 Aug 2023; For Batch no: 8 th and 9 th respectively at BITAC-Khulna 13 July 2023 and 30 Aug 2023; For Batch no: 8 th and 9 th respectively at BITAC-Bogura . |
| Number of Seats | : 30 |
| Course Fee | : Free |
| Target Group | : Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : <ul style="list-style-type: none"> ● Use basic mathematical concepts ● Interpret Drawings and Specifications In Electrical Installation ● To perform Channel and Conduit Wiring ● Install Earthing and Atmospheric Lightning Protection System ● To perform service and motor connection ● Install and maintain electric motor with control system. ● To perform motor rewinding and servicing ● Install and Troubleshoot Solar Electrical System. |
| Course Contents | : <ul style="list-style-type: none"> ● Carry out Workplace Interaction ● To apply OHS Practices in the Workplace ● Use Hand and Power Tools for Electrical Works ● To perform Motor Rewinding Servicing and Motor Connection ● To interpret Drawing & Specifications in Electrical Installation ● Install and Maintain Electric Motor with Control System ● Install and Troubleshoot Solar Electrical System ● To perform Conduit Wiring, Service Connection and Channel Wiring |
| Training Methodology | : <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

7.3 Welding

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|----------------------|---|
| Name of the Course | : Welding |
| Duration | : 360 Hours |
| Schedule | : 03 Sep 2023 to 30 Nov 2023; For Batch no: 8 th at BITAC-Dhaka . 16 Jul 2023 to 10 Oct 2023 and 03 Sep 2023 to 28 Nov 2023; For Batch no: 8 th and 9 th respectively at BITAC- Khulna . 16 Jul 2023 to 10 Oct 2023 and 03 Sep 2023 to 28 Nov 2023; For Batch no: 8 th and 9 th respectively at BITAC-Bogura . 23 Aug 2023; For Batch no: 8 th at BITAC- Dhaka |
| Application deadline | : 13 July 2023 and 30 Aug 2023; For Batch no: 8 th and 9 th respectively at BITAC-Khulna 13 July 2023 and 30 Aug 2023; For Batch no: 8 th and 9 th respectively at BITAC-Bogura . |
| Number of Seats | : 30 |
| Course Fee | : Free |
| Target Group | : Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : <ul style="list-style-type: none"> ● To perform Computations Using Basic Mathematical Concepts ● To communicate in English in the Workplace ● To operate in a Self-Directed Team ● To interpret Technical Drawings and Manuals ● To work with Mechanical Hand and Power Tools ● Carry Out Precision Checks and Measurements ● To apply Quality Systems and Procedures ● To apply fundamentals of welding metallurgy ● Carry Out Shielded Metal Arc Welding (SMAW) ● To perform Gas welding, Gas cutting, Brazing and Soldering ● Carry out Gas Tungsten Arc Welding (TIG) ● Carry out Gas Metal Arc Welding (MIG) |
| Course Contents | : <ul style="list-style-type: none"> ● To operate in a Self-Directed Team ● To apply Occupational Health & Safety(OHS) Practices in the Workplace ● Fundamental of Welding Metallurgy ● To work with Mechanical Hand & Power Tools ● Apply Quality System & Procedures ● To interpret Technical Drawings & Manuals ● Gas welding, Gas cutting, Brazing and Soldering ● Shielded Metal Arc Welding |
| Training Methodology | : <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

Skills for Employment Investment Program (SEIP), BITAC- Chottogram

7.4 Machine Shop Practice

| | |
|----------------------|---|
| Name of the Course | : Machine Shop Practice |
| Duration | : 360 Hours |
| Schedule | : 16 Jul 2023 to 03 Oct 2023 and 04 Oct 2023 to 21 Dec 2023; For Batch no: 9 th and 10 th respectively. |
| Application deadline | : 13 Jul 2023 and 03 Oct 2022; For Batch no:9 th and 10 th respectively. |
| Number of Seats | : 30 |
| Course Fee | : Free |
| Target Group | : Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : <ul style="list-style-type: none"> ● To perform Computations Using Basic Mathematical Concepts ● To apply Occupational Health and Safety (OHS) Practices in the Workplace ● To communicate in English in the Workplace ● To operate in a Self-Directed Team ● To interpret Technical Drawings and Plans ● To work with Mechanical Hand and Power Tools ● To carry Out Precision Checks and Measurements ● To apply Quality System and procedures ● Carry out Bench Working Operations ● To perform Drilling, Lathe, Milling, Shaper and Precision Grinding Machine Operations |
| Course Contents | : <ul style="list-style-type: none"> ● To operate in a Self-Directed Team ● To communicate in English in the Workplace ● To perform Computations Using Basic Mathematical Concepts ● To apply Occupational Health & Safety(OHS) Practices in the Workplace ● To work with Mechanical Hand & Power Tool ● Carry Out Precision Checks & Measurements ● To apply Quality System and Procedures |
| Training Methodology | : <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

7.5 Electrical Installation and Maintenance

| | | |
|----------------------|---|--|
| Name of the Course | : | Electrical Installation and Maintenance |
| Duration | : | 360 Hours |
| Schedule | : | 16 Jul 2023 to 03 Oct 2023 and 04 Oct 2023 to 21 Dec 2023; For Batch no: 9 th and 10 th respectively. |
| Application deadline | : | 13 Jul 2023 and 03 Oct 2022; For Batch no:9 th and 10 th respectively. |
| Number of Seats | : | 30 |
| Course Fee | : | Free |
| Target Group | : | Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> ● Use basic mathematical concepts ● Carryout Workplace Interaction ● To apply OSH Practices in the Workplace ● Interpret Drawings and Specifications In Electrical Installation ● Use Hand and Power Tools for Electrical Works ● To perform Channel and Conduit Wiring ● Install Earthing and Atmospheric Lightning Protection System ● To perform service and motor connection ● Install and maintain electric motor with control system. ● To perform motor rewinding and servicing ● Install And Troubleshoot Solar Electrical System. |
| Course Contents | : | <ul style="list-style-type: none"> ● Use Basic Mathematical Concepts ● Carry out Workplace Interaction ● To apply OHS Practices in the Workplace ● Use Hand and Power Tools for Electrical Works ● To perform Motor Rewinding Servicing and Motor Connection ● To interpret Drawing & Specifications in Electrical Installation ● Install and Maintain Electric Motor with Control System ● Install and Troubleshoot Solar Electrical System ● To perform Conduit Wiring, Service Connection and Channel Wiring |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

7.6 Welding

| | | |
|----------------------|---|--|
| Name of the Course | : | Welding |
| Duration | : | 360 Hours |
| Schedule | : | 16 Jul 2023 to 03 Oct 2023 and 04 Oct 2023 to 21 Dec 2023; For Batch no: 9 th and 10 th respectively. |
| Application deadline | : | 13 Jul 2023 and 03 Oct 2022; For Batch no:9 th and 10 th respectively. |
| Number of Seats | : | 30 |
| Course Fee | : | Free |
| Target Group | : | Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> ● To perform Computations Using Basic Mathematical Concepts ● To apply OHS Practices in the Workplace ● To communicate in English in the Workplace ● To operate in a Self-Directed Team ● To interpret Technical Drawings and Manuals ● To work with Mechanical Hand and Power Tools ● Carry Out Precision Checks and Measurements ● To apply Quality Systems and Procedures ● To apply fundamentals of welding metallurgy ● Carry Out Shielded Metal Arc Welding (SMAW) ● To perform Gas welding, Gas cutting, Brazing and Soldering ● Carry out Gas Tungsten Arc Welding (TIG) ● Carry out Gas Metal Arc Welding (MIG) |
| Course Contents | : | <ul style="list-style-type: none"> ● To operate in a Self-Directed Team ● To communicate in English in the Workplace ● To apply Occupational Health & Safety(OHS) Practices in the Workplace ● Fundamental of Welding Metallurgy ● To work with Mechanical Hand & Power Tools ● Apply Quality System & Procedures ● To interpret Technical Drawings & Manuals ● Gas welding, Gas cutting, Brazing and Soldering ● Shielded Metal Arc Welding |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

Skills for Employment Investment Program (SEIP), BITAC- Chandpur

7.7 Electrical Installation and Maintenance

| | | |
|----------------------|---|--|
| Name of the Course | : | Electrical Installation and Maintenance |
| Duration | : | 360 Hours |
| Schedule | : | 13 Aug 2023 to 08 Nov 2023 (Morning Shift) and 13 Aug 2023 to 08 Nov 2023 (Day Shift); For Batch no: 9 th and 10 th respectively. |
| Application deadline | : | 10 Aug 2023; For Batch no:9 th and 10 th . |
| Number of Seats | : | 30 |
| Course Fee | : | Free |
| Target Group | : | Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> ● Use basic mathematical concepts ● Carryout Workplace Interaction ● To apply OSH Practices in the Workplace ● Interpret Drawings and Specifications In Electrical Installation ● Use Hand and Power Tools for Electrical Works ● To perform Channel and Conduit Wiring ● Install Earthing and Atmospheric Lightning Protection System ● To perform service and motor connection ● Install and maintain electric motor with control system. ● To perform motor rewinding and servicing ● Install And Troubleshoot Solar Electrical System. |
| Course Contents | : | <ul style="list-style-type: none"> ● Use Basic Mathematical Concepts ● Carry out Workplace Interaction ● To apply OHS Practices in the Workplace ● Use Hand and Power Tools for Electrical Works ● To perform Motor Rewinding Servicing and Motor Connection ● To interpret Drawing & Specifications in Electrical Installation ● Install and Maintain Electric Motor with Control System ● Install and Troubleshoot Solar Electrical System ● To perform Conduit Wiring, Service Connection and Channel Wiring |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

7.8 Welding

| | | |
|----------------------|---|--|
| Name of the Course | : | Welding |
| Duration | : | 360 Hours |
| Schedule | : | 13 Aug 2023 to 08 Nov 2023 (Morning Shift) and 13 Aug 2023 to 08 Nov 2023 (Day Shift); For Batch no: 9 th and 10 th respectively. |
| Application deadline | : | 10 Aug 2023; For Batch no:9 th and 10 th . |
| Number of Seats | : | 30 |
| Course Fee | : | Free |
| Target Group | : | Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> ● To perform Computations Using Basic Mathematical Concepts ● To apply OHS Practices in the Workplace ● To communicate in English in the Workplace ● To operate in a Self-Directed Team ● To interpret Technical Drawings and Manuals ● To work with Mechanical Hand and Power Tools ● Carry Out Precision Checks and Measurements ● To apply Quality Systems and Procedures ● To apply fundamentals of welding metallurgy ● Carry Out Shielded Metal Arc Welding (SMAW) ● To perform Gas welding, Gas cutting, Brazing and Soldering ● Carry out Gas Tungsten Arc Welding (TIG) ● Carry out Gas Metal Arc Welding (MIG) |
| Course Contents | : | <ul style="list-style-type: none"> ● To operate in a Self-Directed Team ● To communicate in English in the Workplace ● To apply Occupational Health & Safety(OHS) Practices in the Workplace ● Fundamental of Welding Metallurgy ● To work with Mechanical Hand & Power Tools ● Apply Quality System & Procedures ● To interpret Technical Drawings & Manuals ● Gas welding, Gas cutting, Brazing and Soldering ● Shielded Metal Arc Welding |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

8 Skills for Employment Investment Program-2 (SEIP-2), BITAC- Dhaka, Chottogram, Khulna, Bogura, Chandpur

8.1 Electrical Installation and Maintenance

| | | |
|----------------------|---|--|
| Name of the Course | : | Electrical Installation and Maintenance |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 29 Mar 2024 and 01 Apr 2024 to 28 Jun 2024; For Batch no: 1 st and 2 nd respectively. |
| Application deadline | : | 28 Dec 2023; For Batch no:1 st and 29 Mar 2024 For Batch no:2 nd . |
| Number of Seats | : | 20 |
| Course Fee | : | Free |
| Target Group | : | Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> ● Use basic mathematical concepts ● Carryout Workplace Interaction ● To apply OSH Practices in the Workplace ● Interpret Drawings and Specifications In Electrical Installation ● Use Hand and Power Tools for Electrical Works ● To perform Channel and Conduit Wiring ● Install Earthing and Atmospheric Lightning Protection System ● To perform service and motor connection ● Install and maintain electric motor with control system. ● To perform motor rewinding and servicing ● Install And Troubleshoot Solar Electrical System. |
| Course Contents | : | <ul style="list-style-type: none"> ● Use Basic Mathematical Concepts ● Carry out Workplace Interaction ● To apply OHS Practices in the Workplace ● Use Hand and Power Tools for Electrical Works ● To perform Motor Rewinding Servicing and Motor Connection ● To interpret Drawing & Specifications in Electrical Installation ● Install and Maintain Electric Motor with Control System ● Install and Troubleshoot Solar Electrical System ● To perform Conduit Wiring, Service Connection and Channel Wiring |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

Skills for Employment Investment Program-2 (SEIP-2), BITAC- Dhaka, Chottogram, Khulna, Bogura, Chandpur

8.2 Welding

| | | |
|----------------------|---|--|
| Name of the Course | : | Welding |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 29 Mar 2024 and 01 Apr 2024 to 28 Jun 2024; For Batch no: 1 st and 2 nd respectively. |
| Application deadline | : | 28 Dec 2023; For Batch no:1 st and 29 Mar 2024 For Batch no:2 nd . |
| Number of Seats | : | 20 |
| Course Fee | : | Free |
| Target Group | : | Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> ● To perform Computations Using Basic Mathematical Concepts ● To apply OHS Practices in the Workplace ● To communicate in English in the Workplace ● To operate in a Self-Directed Team ● To interpret Technical Drawings and Manuals ● To work with Mechanical Hand and Power Tools ● Carry Out Precision Checks and Measurements ● To apply Quality Systems and Procedures ● To apply fundamentals of welding metallurgy ● Carry Out Shielded Metal Arc Welding (SMAW) ● To perform Gas welding, Gas cutting, Brazing and Soldering ● Carry out Gas Tungsten Arc Welding (TIG) ● Carry out Gas Metal Arc Welding (MIG) |
| Course Contents | : | <ul style="list-style-type: none"> ● To operate in a Self-Directed Team ● To communicate in English in the Workplace ● To apply Occupational Health & Safety(OHS) Practices in the Workplace ● Fundamental of Welding Metallurgy ● To work with Mechanical Hand & Power Tools ● Apply Quality System & Procedures ● To interpret Technical Drawings & Manuals ● Gas welding, Gas cutting, Brazing and Soldering ● Shielded Metal Arc Welding |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

Skills for Employment Investment Program-2 (SEIP-2), BITAC- Dhaka, Chottogram, Khulna, Bogura.

8.3 Machine Shop Practice

| | |
|----------------------|---|
| Name of the Course | : Machine Shop Practice |
| Duration | : 360 Hours |
| Schedule | : 01 Jan 2024 to 29 Mar 2024 and 01 Apr 2024 to 28 Jun 2024; For Batch no: 1 st and 2 nd respectively. |
| Application deadline | : 28 Dec 2023; For Batch no:1 st and 29 Mar 2024 For Batch no:2 nd . |
| Number of Seats | : 20 |
| Course Fee | : Free |
| Target Group | : Minimum Qualification: JSC pass or Equivalent Age Limit: 18 to 45 Years |
| Course Objects | : <ul style="list-style-type: none"> To perform Computations Using Basic Mathematical Concepts To apply Occupational Health and Safety (OHS) Practices in the Workplace To communicate in English in the Workplace To operate in a Self-Directed Team To interpret Technical Drawings and Plans To work with Mechanical Hand and Power Tools To carry Out Precision Checks and Measurements To apply Quality System and procedures Carry out Bench Working Operations To perform Drilling, Lathe, Milling, Shaper and Precision Grinding Machine Operations |
| Course Contents | : <ul style="list-style-type: none"> To operate in a Self-Directed Team To communicate in English in the Workplace To perform Computations Using Basic Mathematical Concepts To apply Occupational Health & Safety (OHS) Practices in the Workplace To work with Mechanical Hand & Power Tool Carry Out Precision Checks & Measurements To apply Quality System and Procedures |
| Training Methodology | : <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9. Skills for Employment Investment Program (SEIP), BITAC, Dhaka (Korea Tech)

9.1 Factory Automation

| | |
|----------------------|--|
| Name of the Course | : Factory Automation |
| Duration | : 360 Hours |
| Schedule | : 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : 20 |
| Course Fee | : |
| Target Group | : B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : Automation is the technique that makes machine, plant and process to operate automatically. As industry becoming more and more sophisticated by applying automation, demanding more skill people who are capable to work both the engineering fields. Now days it is common to use electrical control system in mechanical engineering to reduce the cost and for robust and reliable operations. The goal of this course is to prepare the engineers and technician for respond the upcoming job market. |
| Course Contents | : <ul style="list-style-type: none"> To operate in a Self-Directed Team To communicate in English in the Workplace To apply Occupational Health & Safety (OHS) Practices in the Workplace Electrical Sequence Circuit & Control Basic Siemens PLC(SIMATIC-S7) Basic Omron PLC(SYMAC) Basic LSIS PLC(XGK) Basic Mitsubishi PLC(MELSEC) PLC communication (SIMATIC/SYMAC/XGK/MELSEC) PLC Position & Servo Control (SIMATIC/SYMAC/XGK/MELSEC) PLC AD/DA & HSC (SIMATIC/SYMAC/XGK/MELSEC) |
| Training Methodology | : <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.2 Pneumatics & Hydraulics

| | | |
|----------------------|---|--|
| Name of the Course | : | Pneumatics & Hydraulics |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> To understand the principle of hydraulic and pneumatics system. To know how a hydraulic system work. To learn about the symbol and components of hydraulic and pneumatics system. To learn about hydraulic and pneumatics troubleshooting. To learn about hydraulic and pneumatics circuit. To design simple hydraulic and pneumatics circuit. |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Carry Out Precision Checks and Measurements Apply Quality Systems and procedures Introduction to Factory Sequence Control Basic Pneumatic & Hydraulic Control Electrical Pneumatic & Hydraulic Control Application Pneumatic & Hydraulic Instruments Maintenance Proportional Hydraulic Control PLC Sensor & Motor Control PLC Machine Vision Control |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.3 FMS (Flexible Manufacturing System)

| | | |
|----------------------|---|--|
| Name of the Course | : | FMS (Flexible Manufacturing System) |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> To reduce setup and queue times. Produce more product more quickly Improve efficiency. Utilize human workers better Improve product routing Reduce time for product completion. |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Fundamental Electrical & Electronics Basic Sequence & PLC Control Programing Introduction to FMS Articulated Robot Disassembly/Assembly & Management PLC Sensor, Machine vision & Motor Control Hand-on FMS Total Exercise (Robot Assembling Process) Industrial Articulated Robot Control Application) Mobile Robot Control Using Scratch Block Program Overview of MES & Smart Factory System |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.4 Additive Manufacturing

| | | |
|----------------------|---|--|
| Name of the Course | : | Additive Manufacturing |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> To design 3D object for 3D printing using CAD software. To install 3D printer and all necessary accessories. To troubleshoot common 3D printing issues. To use slicing software and learn G-code for 3d printers. |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Basic AutoCAD & Solid works Design(2D) Basic 3D Printer Application 3D Printer Slicer SW Application 3D Printer Disassembly/Assembly & Maintenance Using Open Source Prototype Manufacture Using AutoCAD 3D Design & 3D Printer Prototype Manufacture Using SolidWorks 3D Design & 3D Printer 3D Printing Post Processing Using 3D Scanner & Printer (Case of Mold Manufacture) 3D Printing Post Machining Using 3D SW & Printer (Case of Spider Robot Manufacture) 3D Printing Post Machining/Processing Using Rhino 3D SW & Printer (Case of Architectural Miniature Manufacture) |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.5 Autonomous Vehicle

| | | |
|----------------------|---|--|
| Name of the Course | : | Autonomous Vehicle |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> To learn autonomous vehicle image processing To learn driving system maintenance To learn autonomous vehicle control To learn Hands-free steering To learn Adaptive cruise control (ACC) down to a stop To learn Lane-centering steering To develop skill manpower |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Carry Out Precision Checks and Measurements Fundamental of Autonomous Vehicle Path tracking algorithm for autonomous vehicles Introduction to Autonomous Vehicle Control Introduction to Autonomous Vehicle ADAS Sensor Introduction to Autonomous Vehicle Communication (CAN, LIN) Autonomous Vehicle Radar/Lidar Sensor Hybrid/Autonomous Vehicle Communication System Maintenance Hybrid/Autonomous Vehicle Convenience & Driving System Maintenance Autonomous Vehicle Embedded System Programing Autonomous Vehicle Image Processing |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.6 Autonomous Drone Application

| | | |
|----------------------|---|---|
| Name of the Course | : | Autonomous Drone Application |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> To learn basic drone navigation To learn basic drone photographing To learn drone control system To learn IoT programming based on Arduino To develop skill manpower |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Carry Out Precision Checks and Measurements Fundamental of Drone technology Aviation Regulation & Aviation Regulation Simulation Practice Basic Drone Navigation Basic Drone Photographing Basic IoT Programing Based on Arduino Drone Video Photographing (Documentary Type) Drone Navigation and Photographing (Rotation Wings) Drone Navigation and Photographing (Fixed Wings) Drone Control & Navigation Using Arduino Programing Drone Navigation and VR 360o Photographing |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.7 Alternative Energy

| | | |
|----------------------|---|--|
| Name of the Course | : | Alternative Energy |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> To learn solar photovoltaic plant design To learn fundamental of alternative energy To learn wind power plant management & maintenance Fresh skilled workforce can fill the skills gap. Meets our local & overseas demand by re-skilling and up-skilling training. |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Carry Out Precision Checks and Measurements Fundamental Alternative Energy Solar Photovoltaic Fundamental Practice Wind Power Generation Fundamental Practice Solar Photovoltaic Module/Inverter & Distribution System Link SAPV/BIPV System & Plant Maintenance Wind Power Control Using HILS & Wind SIM Solar Photovoltaic Plant Design Using Ecotect & Solar Pro Wind Power Plant Management & Maintenance |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.8 Electrical & Electronics Design

| | | |
|----------------------|---|---|
| Name of the Course | : | Electrical & Electronics Design |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> To learn electronics circuit schematic work. To learn CAD- electrical design application To learn PCB Artwork Using or CAD Layout Fresh skilled workforce can fill the skills gap. Meets our local & overseas demand by re-skilling and up-skilling training. |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Carry Out Precision Checks and Measurements Fundamental Electrical & Electronics Electronics Circuit(Level-1) Electronics Circuit Schematic Work Using Altium Designer Electrical Drawing Work Using AutoCAD-Electrical Electronics Circuit Schematic Work Using or CAD Capture Electronics Circuit(Level-2) PCB Artwork Using Altium Designer AutoCAD-Electrical Design Application PCB Artwork Using or CAD Layout Electronics Circuit Simulation Modeling Using PSpice Electrical Facilities Design Using E-PLAN |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.9 Electrical Machine

| | | |
|----------------------|---|--|
| Name of the Course | : | Electrical Machine |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> Capable of utilizing the latest knowledge and technique in electrical machine To learn electrical instrument design, manufacture & maintenance To learn electrical instrument control Fresh skilled workforce can fill the skills gap. Meets our local & overseas demand by re-skilling and up-skilling training. |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Carry Out Precision Checks and Measurements Fundamental Electrical Instrument Electrical Instrument Disassembly & Assembly Electrical Instrument Manufacture (Level-1) (Single Phase Induction Motor Coil Winding) Electrical Instrument Manufacture (Level-2) (3-Phase Induction Motor & Transformer Coil Winding) Electrical Instrument Control (Level-1) (DC Machine) Electrical Instrument Control (Level-2) (Inductive/Synchronous Machine & Transformer) Electrical Instrument Design Exemplification & Maintenance (Explosion-Proof Type) |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

9.10 Electrical Facilities

| | | |
|----------------------|---|--|
| Name of the Course | : | Electrical Facilities |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> • Increase use of intelligence device in new commercial, residential & industrial wiring & instrumentation. • Capable of utilizing the latest knowledge and technique in electrical installation and maintenance. • Fresh skilled workforce can fill the skills gap. • Meets our local & overseas demand by re-skilling and up-skilling training. |
| Course Contents | : | <ul style="list-style-type: none"> ● Apply Occupational Health & Safety (OH&S) Practice in the workplace ● Perform Personal Computer (PC) Application ● Interpret Technical drawings and Manuals ● Carry Out Precision Checks and Measurements ● Basic Electric Work ● Electric Plumbing Work ● Electric Wiring Work ● Electric Power Control Panel Work with Sequence Circuit (Level-1) ● Electrical Instrument Control (Level-2) (Inductive/Synchronous Machine & Transformer) ● Low Voltage Electric Installation Management ● Electric Power Panel Management ● Power Transmission System ● Power Distribution System |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

9.11 Machine Shop Practice

| | | |
|----------------------|---|--|
| Name of the Course | : | Machine Shop Practice |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> • Understanding of mechanical engineering drawing. • Informing different machining parameters • Introducing design of tools and cutter • Make capable of measuring using different measuring instruments. • Identification different materials • To perform lathe operations • To perform milling operations • To perform grinding operations |
| Course Contents | : | <ul style="list-style-type: none"> ● Apply Occupational Health & Safety (OH&S) Practice in the workplace ● Perform Personal Computer (PC) Application ● Interpret Technical drawings and Manuals ● Carry Out Precision Checks and Measurements ● Basic Lathe ● Basic Milling ● Basic Surface Grinding ● Lathe Application ● Milling Application ● Basic CNC Lathe ● Basic Machining Center ● CNC Lathe Application ● Machining Center Application |
| Training Methodology | : | <ul style="list-style-type: none"> ● Class-room lecture ● Group discussion ● Practical exercise ● Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> ● Observation ● Question and answer ● Oral test ● Overall performance. |

9.12 CAD-CAM Lathe and Milling

| | | |
|----------------------|---|--|
| Name of the Course | : | CAD-CAM Lathe and Milling |
| Duration | : | 360 Hours |
| Schedule | : | 01 Jan 2024 to 28 Mar 2024, 28 Apr to 25 Jul 2024, For Batch no:1 st and 2 nd respectively. |
| Application deadline | : | 21 Dec 2023, 18 Apr 2024. For Batch no:1 st and 2 nd respectively. |
| Number of Seats | : | 20 |
| Course Fee | : | |
| Target Group | : | B.Sc. Engineering /Diploma Engineering / HSC (Vocational) / SSC (Vocational) / TTC / SSC or equivalent. Age Limit: 18 to 45 Years |
| Course Objects | : | <ul style="list-style-type: none"> To understand the principle of CNC milling/lathe operation To know how to operate CNC milling/lathe operation To learn CNC basic programming To know how to reduce machining time To design product in software and cut in machine |
| Course Contents | : | <ul style="list-style-type: none"> Apply Occupational Health & Safety (OH&S) Practice in the workplace Perform Personal Computer (PC) Application Interpret Technical drawings and Manuals Carry Out Precision Checks and Measurements Perform CNC Lathe operation Perform CNC machining center operation Create a model using CAD software Apply CAM for computer-aided machining Perform multi-axis machining |
| Training Methodology | : | <ul style="list-style-type: none"> Class-room lecture Group discussion Practical exercise Demonstration |
| Evaluation System | : | <ul style="list-style-type: none"> Observation Question and answer Oral test Overall performance. |

10 Accelerating and Strengthening Skills for Economic Transformation (ASSET). (Probable Commencing Schedule:01-01-2024)

10.1 BITAC-Dhaka & Bogura.

| S.I No | Name of the Course | Duration (Hours) | No. of Seats/ Course | Course Fee |
|--------------|--------------------------------|--|----------------------|------------|
| 1 | Boiler Operation & Maintenance | 360 | 20 | Free |
| Target Group | | Candidate having SSC or equivalent certificate along with technical experience, TTC/VTI certificate holders, Diploma in Engineering. | | |

10.2 BITAC-Chattogram

| S.I No | Name of the Course | Duration (Hours) | No. of Seats/ Course | Course Fee |
|--------------|------------------------------------|--|----------------------|------------|
| 1 | Refrigeration and Air conditioning | 360 | 20 | Free |
| 2 | Welding | | | |
| Target Group | | Candidate having SSC or equivalent certificate along with technical experience, TTC/VTI certificate holders, Diploma in Engineering. | | |

10.3 BITAC, Chandpur

| S.I No | Name of the Course | Duration (Hours) | No. of Seats/ Course | Course Fee |
|--------------|---------------------------------------|--|----------------------|------------|
| 1 | Electrical Installation & Maintenance | 360 | 20 | Free |
| Target Group | | Candidate having SSC or equivalent certificate along with technical experience, TTC/VTI certificate holders, Diploma in Engineering. | | |

10.4 BITAC, Khulna

| S.I No | Name of the Course | Duration (Hours) | No. of Seats/ Course | Course Fee |
|--------------|--------------------|--|----------------------|------------|
| 1 | Welding | 360 | 20 | Free |
| Target Group | | Candidate having SSC or equivalent certificate along with technical experience, TTC/VTI certificate holders, Diploma in Engineering. | | |

11. Self-Employment and Poverty Alleviation (SEPA), Phase-2, BITAC.

11.1 BITAC, Dhaka. (For Female)

| S.I No. | Name of the Course | Schedule | No. of Seats/ Course | Course Fee |
|--------------|----------------------------------|---|----------------------|------------|
| 1 | Machine Shop | From 01 Jul 2023 to 28 Sep 2023 for the 9 th batch From 01 Oct 2023 to 29 Dec 2023 for the 10 th batch From 01 Jan 2024 to 31 Mar 2024 for the 11 th batch From 01 Apr 2024 to 29 Jun 2024 for the 12 th batch | 30 | Free |
| 2 | Mobile Servicing | | | |
| 3 | Electrical Maintenance | | | |
| 4 | Refrigeration & Air conditioning | | | |
| 5 | Auto CAD | | | |
| 6 | House Hold Appliance Maintenance | | | |
| 7 | Handicraft | | | |
| 8 | Plastic Processing (General) | | | |
| 9 | Plastic Processing (Customized) | | | |
| Target Group | | Minimum 8th/ JSC pass and Age Limit: 18 to 30 Years | | |

11.2 BITAC, Dhaka. (For Male)

| S.I No. | Name of the Course | Time Schedule | No. of Seats/ Course | Course Fee |
|--------------|----------------------------------|--|----------------------|------------|
| 1 | Machine Shop | From 01 Jan 2024 to 31 Mar 2024 for the 11 th batch From 01 Apr 2024 to 29 Jun 2024 for the 12 th batch | 30 | Free |
| 2 | Electronics | | | |
| 3 | Electrical Maintenance | | | |
| 4 | Refrigeration & Air Conditioning | | | |
| 5 | Auto CAD | | | |
| 6 | Computer Hardware Maintenance | | | |
| 7 | Welding | | | |
| Target Group | | Minimum 8th/ JSC pass and Age Limit: 18 to 30 Years | | |

11.3 BITAC, Chattogram, Khulna and Bogura. (For Male)

| S.I No. | Name of the Course | Schedule | No. of Seats/ Course | Course Fee |
|--------------|----------------------------------|---|----------------------|------------|
| 1 | Welding (Arc & Gas) | From 01 Jul 2023 to 28 Sep 2023 for the 9 th batch From 01 Oct 2023 to 29 Dec 2023 for the 10 th batch From 01 Jan 2024 to 31 Mar 2024 for the 11 th batch From 01 Apr 2024 to 29 Jun 2024 for the 12 th batch | 30 | Free |
| 2 | Electrical Maintenance | | | |
| 3 | Refrigeration & Air Conditioning | | | |
| Target Group | | Minimum 8th/ JSC pass and Age Limit: 18 to 30 Years | | |

11.4 BITAC, Chattogram, Khulna and Bogura. (For Female)

| S.I No. | Name of the Course | Schedule | No. of Seats/ Course | Course Fee |
|--------------|----------------------------------|---|----------------------|------------|
| 1 | Mobile Servicing | From 01 Jul 2023 to 28 Sep 2023 for the 9 th batch From 01 Oct 2023 to 29 Dec 2023 for the 10 th batch From 01 Jan 2024 to 31 Mar 2024 for the 11 th batch From 01 Apr 2024 to 29 Jun 2024 for the 12 th batch | 30 | Free |
| 2 | Electrical Maintenance | | | |
| 3 | Refrigeration & Air conditioning | | | |
| Target Group | | Minimum 8th/ JSC pass and Age Limit: 18 to 30 Years | | |

11.5 BITAC, Chandpur (For Male)

| S.I No. | Name of the Course | Schedule | No. of Seats/ Course | Course Fee |
|--------------|------------------------|---|----------------------|------------|
| 1 | Welding (Arc & Gas) | From 01 Jul 2023 to 28 Sep 2023 for the 9 th batch From 01 Oct 2023 to 29 Dec 2023 for the 10 th batch From 01 Jan 2024 to 31 Mar 2024 for the 11 th batch From 01 Apr 2024 to 29 Jun 2024 for the 12 th batch | 30 | Free |
| 2 | Machine Shop | | | |
| 3 | Electrical Maintenance | | | |
| Target Group | | Minimum 8th/ JSC pass and Age Limit: 18 to 30 Years | | |

12. BITAC, Chattogram.

12.1 Long Term Technical Training Program (Regular)

| S.I No | Name of the Course | Course No. | Schedule | Duration (Weeks) | No. of Seats | Course Fee |
|--------|------------------------|------------|----------------------------|------------------|--------------|------------|
| 1 | Machine Shop | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 20 | 5,000/- |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | | |
| 2 | Electrical Maintenance | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 20 | 8,000/- |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | | |
| 3 | Welding | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 20 | 7,500/- |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | | |
| 4 | Machine Maintenance | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 10 | 5,000/- |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | | |

12.2 Customized Technical Training Program.

| Sl. No. | Name of the Course | Schedule | Duration (Weeks) | No. of seats | Course Fee |
|---------|--------------------|-------------------|------------------|--------------|------------|
| 1 | Auto CAD (2D & 3D) | As per Discussion | 6 | 6 | 5,000/- |

12.3 Long Term Technical Training Program (Customized).

| Name of the Course | Course No. | Schedule | Duration (Hours) | No. of Seats | Course Fee |
|------------------------------------|---------------|-------------------|------------------|--------------|------------|
| Refrigeration and Air Conditioning | As per Demand | As per Discussion | 360 | 10 | 5,000/- |

13. BITAC, Chandpur, Khulna & Bogura

Long Term Technical Training Program (Regular)

| S.I No | Name of the Course | Course No. | Schedule | Duration (Weeks) | No. of Seats | Course Fee |
|--------|------------------------|------------|----------------------------|------------------|--------------|------------|
| 1 | Machine Shop | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 10 | 5,000/- |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | | |
| 2 | Electrical Maintenance | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 20 | 8,000/- |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | | |
| 3 | Welding | 170 | 20 Aug 2023 to 23 Nov 2023 | 14 | 20 | 7,500/- |
| | | 171 | 03 Dec 2023 to 08 Mar 2024 | | | |
| | | 172 | 18 Mar 2024 to 21 Jun 2024 | | | |

14. Tool & Technology Institute (TTI), BITAC.

14.1 Training Program (ASSET, BEIOA-SEIP & Regular)

| Sl No | Name of The Course | Course Type | Schedule | Duration (Hours) | No of Seats | Course Fee |
|-------|-------------------------------------|-------------|------------------|------------------|-------------|------------|
| 1. | CNC Machine Operation | ASSET | 01 Jan to 30 Apr | 360 | 20 | Free |
| | | | 01 May to 30Aug | 360 | | |
| 2. | Programmable Logic Controller (PLC) | BEIOA-SEIP | 18 Aug to 5 Dec | 360 | 40 | Free |
| | | | | | | |
| 3 | Mechatronics& PLC | ASSET | 01 Jan to 30 Apr | 360 | 20 | Free |
| | | | 01 May to 30Aug | 360 | | |
| 4 | Hydraulics & Pneumatics | Regular | 01 Jul to 30 Sep | 360 | 10 | 10,000 |
| | | | 01 Nov to 31 Jan | 360 | | |
| | | | 01 Mar to 31 May | 360 | | |
| 5 | CAD/CAM Lathe | Regular | 01 Jan to 30 Apr | 360 | 15 | 10,000 |
| | | | 01 May to 30Aug | 360 | | |

14.2 Customized Technical Training Program.

| Sl. No. | Name of the Course | Schedule | No. of seats | Course Fee |
|---------|--|-------------------|--------------|------------|
| 1 | Master CAM | As per Discussion | 10 | 10,000/- |
| 2 | Solid Works | | | |
| 3 | CNC Machine Operation | | | |
| 4 | Intermediate Automation and Control System | | | |
| 5 | CAD/CAM Lathe | | | |
| 6 | CAD/CAM Milling | | | |
| 7 | 3D printing with CAD | | | |
| 8 | Programmable Logic Controller (PLC) | | | |
| 9 | EDM & EDM Wire cut Machine operation | | | |
| 10 | Hydraulics & Pneumatics | | | |

14.3 CNC Machine Operation

| | | |
|----------------------|---|--|
| Name of the Course | : | CNC Machine Operation |
| Duration | : | 18 Weeks |
| Schedule | : | 01 Jan to 30 Apr, 01 May to 31 Aug |
| Nomination Deadline | : | 20 Dec 2023, 20 Apr 2024 |
| Number of Seats | : | 20 |
| Course Fee | : | Free |
| Target Group | : | Candidate having B.Sc./Diploma in engineering or equivalent. For technical experience, educational qualification might be compromised. |
| Course object | : | <ul style="list-style-type: none"> To understand the principle of CNC milling operations. To know how to operate a CNC machine. To learn CNC basic programming. To know how to reduce machining time. To design particular parts and develop them in the machine. To design products in software and cut in the machine. |
| Course Content | : | <ul style="list-style-type: none"> Safety Machine operating Manual programming with G&M codes Mechanical Drawing Solid works Master CAM 2D programming Master CAM 3D programming |
| Training Methodology | : | <ul style="list-style-type: none"> Theory Classes Demonstration Practice on machine Daily evaluation Motivational session |
| Evaluation System | : | <ul style="list-style-type: none"> Participation in the session Oral test Written test Evidence guides Practical examination |

14.4 Mechatronics & PLC (ASSET)

| | | |
|----------------------|---|---|
| Name of the Course | : | Mechatronics & PLC |
| Duration | : | 18 Weeks |
| Schedule | : | 01 Jan to 30 Apr, 01 May to 31 Aug |
| Nomination Deadline | : | 20 Dec 2023, 20 Apr 2024 |
| Number of Seats | : | 20 |
| Course Fee | : | Free |
| Target Group | : | Candidate having B.Sc/Diploma in engineering or equivalent. For technical experience educational qualification might be compromised. |
| Course object | : | <ul style="list-style-type: none"> To understand the principle of Mechatronics and its application. To know the application of PLC. To know various sensors and actuator and its application. To understand the industrial application of hydraulic and pneumatics. To understand the application of Automation. |
| Course Content | : | <ul style="list-style-type: none"> Pneumatic system Electro-pneumatic system Mechanical power transmission system Basic hydraulic and hydraulic control system Hydraulic circuit and Electro-hydraulic Programmable Logic Control (PLC) Sensor & Instrumentation Introduction to Micro-Controller |
| Training Methodology | : | <ul style="list-style-type: none"> Theory Classes Demonstration Practice on machine Daily evaluation Motivational session |
| Evaluation System | : | <ul style="list-style-type: none"> Participation in the session Oral test Written test Evidence guides Practical examination |

14.5 Programmable Logic Controller (PLC) (BEIOA-SEIP Project)

| | | |
|----------------------|---|---|
| Name of the Course | : | Programmable Logic Controller (PLC) |
| Duration | : | 12 Weeks |
| Schedule | : | 18 Aug 2023 to 05 Dec 2023 |
| Nomination Deadline | : | 13 Aug 2023 |
| Number of Seats | : | 40 |
| Course Fee | : | Free |
| Target Group | : | Candidate having B.Sc./Diploma in engineering or equivalent. For technical experience, educational qualification might be compromised. |
| Course object | : | <ul style="list-style-type: none"> To understand the principle of Mechatronics and its application. To know the application of PLC. To know various sensors and actuator and its application. To understand the industrial application of hydraulic and pneumatics. To understand the application of Automation. |
| Course Content | : | <ul style="list-style-type: none"> Pneumatic system Electro-pneumatic system Mechanical power transmission system Basic hydraulic and hydraulic control system Hydraulic circuit and Electro-hydraulic Programmable Logic Control (PLC) Sensor & Instrumentation Introduction to Micro-Controller |
| Training Methodology | : | <ul style="list-style-type: none"> Theory Classes Demonstration Practice on machine Daily evaluation Motivational session |
| Evaluation System | : | <ul style="list-style-type: none"> Participation in the session Oral test Written test Evidence guides Practical examination |

14.6 CAD/CAM Lathe

| | | |
|----------------------|---|---|
| Name of the Course | : | CAD/CAM Lathe |
| Duration | : | 12 weeks |
| Schedule | : | 01 Jan to 30 Apr, 01 May to 30 Aug |
| Nomination Deadline | : | 20 Dec 2023, 20 Apr 2024 |
| Number of Seats | : | 15 |
| Course Fee | : | 10,000/- |
| Target Group | : | Candidate having B.Sc./Diploma in engineering or equivalent. For technical experience, educational qualification might be compromised. |
| Course object | : | <ul style="list-style-type: none"> To understand the principle of CNC lathe operations. To know how to operate a CNC lathe machine. To learn CNC lathe basic programming. To know how to reduce machining time. To design particular part and develop in machine. To design product in software and cut in machine. |
| Course Content | : | <ul style="list-style-type: none"> Safety Machine operating manual programming with G&M codes Mechanical Drawing Solid works Master CAM 2D programming Master CAM 3D programming |
| Training Methodology | : | <ul style="list-style-type: none"> Theory Classes Demonstration Practice on machine Daily evaluation Motivational session |
| Evaluation System | : | <ul style="list-style-type: none"> Participation in the session Oral test Written test Evidence guides Practical examination |

14.7 Hydraulics & Pneumatics

| | | |
|----------------------|---|--|
| Name of the Course | : | Hydraulics & Pneumatics |
| Duration | : | 12 Weeks |
| Schedule | : | 01 Jul to 30 Sep, 01 Nov to 31 Jan and 01 Mar to 31 May |
| Nomination Deadline | : | 20 Jun 2023, 20 Oct 2023, 20 Feb 2024 |
| Number of Seats | : | 10 |
| Course Fee | : | 10,000/= |
| Target Group | : | Candidate having B.Sc/Diploma in engineering or equivalent. For technical experience educational qualification might be compromised. |
| Course object | : | <ul style="list-style-type: none"> To understand the principle of hydraulic system. To know how a hydraulic system works. To learn about the symbol and components of hydraulic system. To learn about hydraulic troubleshooting. To learn about hydraulic circuits. To design simple hydraulic circuit. |
| Course Content | : | <ul style="list-style-type: none"> Basic Hydraulic & Symbol Hydraulic Components Troubleshooting Hydraulic Fluid & Hose-Fitting Hydraulic Circuit & Close Loop System Advanced Hydraulic & Final Evaluation |
| Training Methodology | : | <ul style="list-style-type: none"> Theory Classes Demonstration Practice on machine Daily evaluation Motivational session |
| Evaluation System | : | <ul style="list-style-type: none"> Participation in the session Oral test Written test Evidence guides Practical examination |

15. INDUSTRIAL ATTACHMENT TRAINING PROGRAM, BITAC- Dhaka, Chattogram, Khulna, Bogura, Chandpur and TTI.

| | |
|----------------------|---|
| Name of the Course | Industrial Attachment Technical Training Program |
| Duration | Depends on the participating Institute |
| Schedule | At any time of the year depending on the participating Institute |
| Nomination deadline | Depends on the participating Institute |
| Number of Seats | As per Demand |
| Course fee | As per Govt. rule depending on the sending Institute |
| Target Group | All the public and private technical universities, polytechnic institutes, TTC, etc. |
| Course Objects | <ul style="list-style-type: none"> Introducing different conventional machine tools such as lathe, milling, grinding planer, boring, shaper, shearing, drilling, ball press, power press etc. and CNC & Servo Control machine tools such as lathe, milling center, Die Sink EDM, & wire cut EDM. Comparing theoretical and practical operation systems of different traditional and CNC machine tool to develop spare parts or products, Acquainting with different melting and heat treatment furnaces and their operation system and also different surface treatment including protective coating; To make adapted in real life situation Understanding estimation and controlling production system. Rendering practical know-how on plastic processing technology. Introducing 3D printing operation. |
| Course Contents | <ul style="list-style-type: none"> Welding and Fabrication Conventional Machine Tool-lathe, milling, grinding, planner, boring, shaper, shearing, drilling and power press machine etc. CNC Machine Tool-lathe, milling machining center & Wire cut EDM, 3D printing & Hydraulic System. Special Machine Tool-Copy milling, pantograph milling, profile grinder, jig Boring & jig Grinding, EDM Tool and Cutter Grinding, Light Forging Heat-Treatment Patten Foundry |
| Training Methodology | <ul style="list-style-type: none"> Group discussion Practical exercise Case study. |
| Evaluation System | <ul style="list-style-type: none"> Group exercise Individual exercise Discussion Oral test Overall performance. |

