As a Corporate policy, we at BHEL, always give the top most priority to our Customers. Customer Service, Satisfaction and their Delight is the most important aspect in our working approach. As a part of this policy, HRDC has been conducting quite successfully, Customer Training Programmes. We also organize refresher Courses based on the need & request of our Customers. The faculties who come to interact with the participants are not only technically experts, but also, experienced in their areas. With such faculties, the value addition in terms of learning is direct and visible. The programmes have been highly appreciated by our participants in the past and we continuously strive to make it more effective in the future.

It is imperative that any power generation equipment should work trouble-free with minimum maintenance. For this, the personnel who are running the equipment should be aware of the basics of the design, testing and intricacies of operational and maintenance aspects. With this end in view, the following programmes are offered during 2019-20.

<table>
<thead>
<tr>
<th>SL NO</th>
<th>PROGRAMME TITLE</th>
<th>DATES</th>
<th>DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INDUSTRIAL STEAM TURBINE</td>
<td>16-22 MAY, 2019</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>COMPRESSOR</td>
<td>13-18 JUN, 2019</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>GAS TURBINE</td>
<td>18-23 JUL, 2019</td>
<td>5</td>
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<td>4</td>
<td>INDUSTRIAL STEAM TURBINE</td>
<td>1-6 AUG, 2019</td>
<td>6</td>
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<tr>
<td>5</td>
<td>COMPRESSOR</td>
<td>19-24 SEP, 2019</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>GAS TURBINE</td>
<td>17-22 OCT, 2019</td>
<td>5</td>
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</tbody>
</table>

**INTRODUCTION**

This six days programme on Steam Turbine for Customer Engineers is designed to familiarise them with Equipment Design and Constructional features, Operational requirement, Performance and Failure analysis, Maintenance techniques and procedures, Spare parts management and to provide a forum for exchange of experiences between supplier and users.

**Course Coverage:**
- Turbine Constructional features, Governing System
- Turbine Operating principles & performance evaluation & Turbine Testing
- Start-up Loading and Shutdown of Turbines
- Maintenance aspects, Do’s and Don’ts, Trouble Shooting and Case study presentation
- Principles of Alignment, Leveling, Centering of Glands, Bearings etc.
- Condensing and Air extraction system
- Vibration Analysis and Balancing
- Remaining Life Assessment
- Visit to Turbine Manufacturing Unit.

**Fees:** Rs. 24,000/- per participant + Taxes
This programme on Compressors is designed for Customer Engineers to familiarize them with the Constructional aspects, Equipment behavior under various operational conditions, Maintenance Techniques and Procedures.

Course Coverage:
- Types of Compressors
- Application of Compressors
- Design Concepts
- Compressor drive
- Subsystems for Compressor sets
- Condition monitoring
- Major - overhaul procedure
- Spare parts management
- Trouble shooting of Compressors
- Visit to Compressor shop

Fees: Rs. 20,000/- per participant + Taxes

This five days programme on Gas Turbine is designed exclusively for the Customer Engineers, who are directly connected with the operation and maintenance of Gas Turbine. Since GT is the heart of any power plant, this programme familiarizes the participants with all aspects of running of GT. This programme is considered a must for every Power Plant Engineer.

Course Coverage:
- Constructional features
- Schematics
- Auxiliaries
- Speedtronic Controls
- Accessory gear box, Load gear box
- Start-up Loading and Shutdown of Turbines
- Operational Aspects
- Maintenance Aspects
- Visit to Gas Turbine Manufacturing Units.

Fees: Rs. 20,000/- per participant + Taxes
This programme on Compressors is designed for Customer Engineers to familiarize them with the Constructional aspects, Equipment behavior under various operational conditions, Maintenance techniques and procedures, Spare parts management and to provide a forum for exchange of experiences between supplier and users.

Course Coverage:
- Types of Compressors
- Application of Compressors
- Design Concepts
- Compressor drive
- Subsystems for Compressor sets
- Condition monitoring
- Major - overhaul procedure
- Spare parts management
- Trouble shooting of Compressors
- Visit to Compressor shop

Fees: Rs. 20,000 /- per participant + Taxes
METHODOLOGY
Training Methods include Class Room Lectures supported with Audio Visual aids, Group discussions, Case studies, Visit to Manufacturing and Assembly Shops etc.

ELIGIBILITY
These programmes are open for personnel who are working in the Operations and Maintenance functions and are dealing with BHEL Equipment. As it is essential to have a homogenous group of participants for meaningful interaction and purposeful learning, we suggest that the selection of participants may please be done very carefully so that the programme can be useful to the participant as well as to the sponsoring Organization.

FACULTY
Faculty is drawn from BHEL Executives who are experts in their specialised fields.

PRE-REVISED FEES (NON-REFUNDABLE)
As shown against each programme. These are non-residential programmes. Fees include Course material kit, Lunch, Coffee/Tea. Programme Fee will not be refunded on cancellation of nomination.
Registration of Nominations is done on “first come first serve” basis. A very large number of nominations much beyond our present capacity are received every year.

PROGRAMME FACILITATOR
Sri K.N. Sandeep, Sr. Engineer, HRDC, BHEL RC Puram, Hyderabad – 502 032.
Telephone No. (Off) 040-23184770, (Mob) 9989003775, Email: knsandeep@bhel.in

PROGRAMME SUPPORT TEAM
Sri A Krishna Reddy, Additional Engineer, HRDC, (Off) 040-23184816, (Mob) 08333851344
Sri D Manoj Kumar, Deputy Engineer, HRDC, (Off) 040-23184296, (Mob) 09441643865

PROGRAMME DIRECTOR
Telephone No. (Off) 040-23182317, (Mob) 09441745480, Email: mahi@bhel.in

VENUE: Room No 122(Pragathi Hall)/Room No 106(Kakatiya Hall) HRD Centre, Ramachandrapuram.
Any change of Venue will be intimated at the time of confirming nominations.
TIMINGS: 0830 Hrs to 1630 Hrs with 1 hour lunch break from 1200 Hrs to 1300 Hrs.

NOMINATIONS
Nominations may kindly be sent along with Programme Fee, Crossed Demand Draft/NEFT/RTGS in favor of BHEL, RC Puram, SBI Current Acc. No. 62048154115, IFSC:SBIN0020075, Hyderabad – 502032, to reach us about 4 weeks prior to the commencement of programme by email or addressed to:
P Chandra Sekhar
Head / HRD Centre, BHEL, RC Puram, Email: knsandeep@bhel.in, mahi@bhel.in
Hyderabad – 502 032.

GENERAL INFORMATION

6. GAS TURBINE
17-22 OCT, 2019 (5 DAYS)

This five days programme on Gas Turbine is designed exclusively for the Customer Engineers, who are directly connected with the operation and maintenance of Gas Turbine. Since GT is the heart of any power plant, this programme familiarizes the participants with all aspects of running of GT. This programme is considered a must for every Power Plant Engineer.

Course Coverage:
- Constructional features
- Schematics
- Auxiliaries
- Speedtronic Controls
- Accessory gear box, Load gear box
- Operational Aspects
- Maintenance Aspects
- Visit to Gas Turbine Manufacturing Units.

Fees: Rs. 20,000/- per participant + Taxes
CUSTOMER TRAINING PROGRAMME ON O & M of Turbines, Boiler & HRSG for GAIL ENGINEERS
From: 28.01.2019 to 31.01.2019

CUSTOMER TRAINING PROGRAMME ON STEAM TURBINE, GENERATOR & HE & FAB (CONTRACTUAL OBLIGATIONS) FOR SHREE CEMENT LTD, GSPC PIPAVAV, BCPL CUSTOMER FROM: 25-07-2018 TO 31-07-2018
CUSTOMER TRAINING PROGRAMME ON GAS TURBINE FOR BGGTS CUSTOMER
From 25.07.2018 to 28.07.2018

Customer Training Programme on Steam Turbine Driven Centrifugal Compressor for IOCL Haldia, IOCL Barauni and BPCL Kochi
From : 11.05.2018 to 16.05.2018

CUSTOMER TRAINING PROGRAMME ON STEAM TURBINE & GENERATOR & HE Fab for TATA Steel Customers
From : 09-05-2018 to 15-05-2018

CUSTOMER TRAINING PROGRAMME ON GAS TURBINE FOR GAIL CUSTOMERS
FROM : 29.01.2018 TO 02.02.2018