1. **Training Services**

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      1. List of Training Courses at JRD ATC

   b. **Engineering Student Training**
      1. List of Training Courses
      2. Student Training Calendar

2. **Training Policies**

3. **FAQ**
Training Services

Customer Training

The JRD Automation Training Centre delivers extensive training solutions to Honeywell customers worldwide. We provide training to help your Operators, Maintenance Technicians, Implementation Engineers, System Administrators and Plant Management leverage the capabilities of your Honeywell systems to maximize productivity.

Whatever your training needs, be assured that JRD ATC Training Services can meet and support your requirements. We offer consultations to provide you with a thorough analysis of your training needs through the following offerings:

Customer Site Training

- Emphasis on your site-specific equipment configuration
- Focus on your points of emphasis
- Use of site procedures and terminology
- Support site schedules, employee availability and experience levels
- Limited training systems that can be shipped to your site

Instructor Based Courses
• Lecture-based
• Interactive
• Extensive student lab time
• Extensive system availability

Train-the-Trainer Program
• Provides your qualified instructors with certified training materials
• Develops Internal trainers

Refresher Training
• Maintains and enhances job skills
• Provides an effective method of staying updated
• Offers regular and periodic programs for operators, technicians and engineers

Training Needs Assessment
• Based on personnel interviews
• Includes review of equipments and technology
• Identifies primary job skills
• Provides training recommendations

Customized Training Solutions
• Provides standard course offerings

• Develops customized training programs to support your Honeywell systems

• Provides tailored training solutions in a self-paced format or classroom style

• Delivers training at our center or at your site.
# List of Training Courses at JRD ATC

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDC 3000 / TPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operations Skills</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GUS Operations</td>
<td>OS01</td>
<td>5</td>
</tr>
<tr>
<td>OM &amp; S Operations</td>
<td>OS05</td>
<td>3</td>
</tr>
<tr>
<td>US Operations</td>
<td>OS07</td>
<td>5</td>
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<tr>
<td><strong>Engineering Skills</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GUS Engineering</td>
<td>ES01</td>
<td>5</td>
</tr>
<tr>
<td>GUS/HPM Engineering</td>
<td>ES02</td>
<td>10</td>
</tr>
<tr>
<td>Advanced graphics design – GUS Display Builder</td>
<td>ES03</td>
<td>5</td>
</tr>
<tr>
<td>AM Control Strategy design and Modification</td>
<td>ES04</td>
<td>5</td>
</tr>
<tr>
<td>APP Engineering</td>
<td>ES05</td>
<td>5</td>
</tr>
<tr>
<td>Advanced graphics design – Picture Editor</td>
<td>ES16</td>
<td>5</td>
</tr>
<tr>
<td>US/APM Engineering</td>
<td>ES17</td>
<td>10</td>
</tr>
<tr>
<td>US/AMC Engineering</td>
<td>ES18</td>
<td>10</td>
</tr>
<tr>
<td>LM Implementation</td>
<td>ES19</td>
<td>5</td>
</tr>
<tr>
<td>HPM- SI Implementation</td>
<td>ES21</td>
<td>3</td>
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<tr>
<td>HPM Engineering</td>
<td>ES24</td>
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**Maintenance Skills**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Advanced Maintenance Workshop – TPS</td>
<td>MS01</td>
<td>10</td>
</tr>
<tr>
<td>LCN/AMC Maintenance</td>
<td>MS08</td>
<td>5</td>
</tr>
<tr>
<td>LCN /APM Maintenance</td>
<td>MS09</td>
<td>5</td>
</tr>
<tr>
<td>LCN/ HPM Maintenance</td>
<td>MS10</td>
<td>5</td>
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</table>

**Experion PKS***

**Operation Skills**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experion PKS Operations</td>
<td>OS0</td>
<td>3 days</td>
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**Engineering Skills**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>Experion PKS C200 Engineering</td>
<td>ES2</td>
<td>5 days</td>
</tr>
</tbody>
</table>

* Similar programs for PlantScape C200.

**PLC, SCADA and Safety Systems**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Code</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>FSC Engineering</td>
<td>ES1</td>
<td>5 days</td>
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<tr>
<td>Course</td>
<td>Code</td>
<td>Duration</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>------</td>
<td>----------</td>
</tr>
<tr>
<td>LCS 620 Engineering</td>
<td>ES1</td>
<td>5 days</td>
</tr>
<tr>
<td>Triconex Engineering</td>
<td>ES1</td>
<td>5 days</td>
</tr>
<tr>
<td>Allen-Bradley PLC Engineering</td>
<td>ES1</td>
<td>5 days</td>
</tr>
<tr>
<td>GE FANUC PLC Engineering</td>
<td>ES1</td>
<td>5 days</td>
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</tbody>
</table>

**IT and Management Skills**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPS System Administration</td>
<td>IS01</td>
<td>5 days</td>
</tr>
<tr>
<td>Windows NT/2000 Administration</td>
<td>IS03</td>
<td>3 days</td>
</tr>
<tr>
<td>Networking Essentials for PlantScape/TPS</td>
<td>IS04</td>
<td>2 days</td>
</tr>
<tr>
<td>DCS Overview</td>
<td>IS05</td>
<td>3 days</td>
</tr>
</tbody>
</table>
Engineering Student Training – NEW!

We offer extensive training programs for graduating students to bridge the gap between college education and industry requirements. There are different programs for different engineering streams.

List of Training courses

- Program for Instrumentation/Electronics and Chemical Engineering Students
- Program for Mechanical and Electrical Engineering Students
- Program for Marine Engineering Students/ Shippers
- Program for Building Management System

BENEFITS of Honeywell Training

- Job Opportunities
- Increased Knowledge Base
- Competitive Advantage
- Exposure to Industrial Environment
- Hands on Practical Experience
- Exposure to latest technology trends
Program for Instrumentation/Electronics and Chemical Engineering Students

Course Overview: -

This four-week program provides fundamental knowledge of process automation and control systems. Participants will learn PLC functionality and its detailed configuration and will be able to design and implement advanced PLC logic using ladder / function block programming. Participants will also go through hands on practical training on PLC interface with SCADA (HMI).

Certificate: - DCS, PLC and SCADA Systems

Duration: - 4 Weeks (Three Weeks at Honeywell + One Week plant training at RCF, Mumbai).

Contents: -

PLC and SCADA (1 Week)

- Process Control Fundamentals
- PLC Fundamentals and its applications
- PLC Hardware components
- System configurations
- PLC programming concepts
- PLC programming software
- Ladder logic development and implementation
- SCADA Architecture
- SCADA communication with PLC
- Process monitoring and control from SCADA

**Distributed Control Systems (2 Weeks)**

- Distributed control system fundamentals
- DCS system architecture
- Database organization in DCS
- Process operations in DCS
- Database Configuration
- Control algorithms
- DCS implementation concepts
- Configure process operations schematics

**Onsite (Week)**

**Fees:** Rs. 21,000/ per participant (inclusive of taxes)
Program for Mechanical and Electrical Engineering Students

Course Overview:

This five-day course provides fundamental knowledge of process automation and control systems. Participants will learn PLC functionality and its configuration and will be able to design and implement PLC logic using ladder / function block programming. Participants will also go through hands-on practical training on PLC interface with SCADA (HMI).

Certificate: PLC and SCADA

Duration: 5 Days

Contents:

Process Automation
- Process Control Fundamentals
- Sensors and Transducers
- Temperature: RTD, Thermocouple, Bourdon Tube
- Flow: Orifice, Electronic
- Smoke sensors, UV Sensors
- Smart transmitters
- Actuator: Single acting, Double acting, (Rotary and Linear)
- Control System Overview
Programmable Logic Controllers
- Process control and control systems
- PLC Fundamentals and its applications
- Hardware components of PLC
- System configuration
- PLC programming concepts
- PLC programming software
- Ladder logic development and Implementation

Supervisory Control and Data Acquisition (SCADA)
- Functionality and Applications
- System Architecture
- Interface with PLC
- Database Configuration

Fees: Rs. 6500/ per participant (inclusive of taxes)
Program for Marine Engineering Students/ Shippers

Course Overview:
This five-day course provides fundamentals knowledge of marine automation and control systems. Participants will learn PLC functionality and its configuration and will be able to design and implement PLC logic using ladder / function block programming. Participants will also go through hands on practical training on PLC interface with SCADA (HMI).

Certificate: Marine Instrumentation and Advanced Control Systems

Duration: 5 Days

Contents:

Module 1: Sensors / Transducers
1. Temperature: RTD, Thermocouple, Bourdon Tube
2. Flow: Orifice, Electronic
3. Smoke sensors, UV Sensors
4. Calibration of different smart transmitters
5. Actuator: Single acting, Double acting, (Rotary and Linear)

Module 2: Electronic Controllers
Single loop, Multi loop PID controllers for Boiler Controllers
Module 3: Allen Bradley (AB) PLC (PLC 5 Series)
Architecture, Interface, Ladder diagram, Programming,
Hardware Configuration

Module 4: SCADA
SCADA Configuration, Interface of AB- PLC with SCADA

Module 5: FAS
Smoke Detectors, Control Panel

Fees:

For Students: Rs. 8,500/ (inclusive of taxes)

For Shippers/ Working Professionals: Rs. 16,500/ (inclusive of taxes)
Program for Building Management System

Course Overview:
This five-day course provides fundamental knowledge on Fire Alarm System and HVAC Control Systems. The program is concept specific and not limited to any particular product.


Duration: 5 Days

Contents:

Building Management System

A. Fire Alarm System (2 Days)
- Fire Alarm System Fundamentals and Operations
- Applications of Fire System and System Design
- Design/ Configuration and test from control panel

B. HVAC Control Systems (3 Days)
- HVAC and Refrigeration Fundamentals
- AHU and Plant fundamentals, Instrumentation and control
  System components

- Configuration of controller

Fees:

Fire Alarm System: Rs. 4500/ (inclusive of taxes)

HVAC Control System: Rs. 5000/ (inclusive of taxes)

** For complete BMS program course fee is Rs. 8500/ per participant
Student Training Calendar

Student training batches schedule for the next three months

- 13th June to 8th July 2005
- 18th July to 12th August 2005
- 22nd August to 9th September 2005

Training Policies

A Customer is defined as a party who has purchased Honeywell’s industrial automation Products or Services for intended use, an engineering/contracting firm who is legitimately acting on behalf of a customer or a party who, in Honeywell's sole discretion is determined to be a potential customer.

Classes conducted at customer sites are intended only for employees of the customer or employees of engineering/contracting firms who are acting on behalf of the customer on the
implementation of Honeywell Products or Services unless a separate written agreement has been reached.

Any location identified by the customer other than the Honeywell Training Center for training will be considered a customer site. The number of participants permitted to attend a class conducted at a customer site is limited to ten.

Honeywell training materials, including materials in documentary or electronic format and audio/visual materials ("Training Materials") are to be used solely for their stated purpose. Training Materials are copyrighted and shall not be reproduced or copied, in whole or in part, without Honeywell's prior written authorization.

Training and training materials are made available to Honeywell customers only.

**COURSE CANCELLATION:**
Honeywell reserves the right to cancel or reschedule any course up to ten (10) working days prior to the scheduled start date. Tuition payments received may be applied as tuition for other classes or refunded at the customer's option. If a customer must leave a class before completion, the customer is entitled to return and complete the class at a date mutually agreed upon at no additional tuition charge. No refunds shall be given in this case.

**CUSTOMER TRAINING PROGRAMS**
Training Materials.
Training Materials supplied by Honeywell in documentary, electronic and/or audio/visual format for use in Customer-developed training programs shall be prepared in a professional manner and shall be consistent with Training Materials used in Honeywell's training Centers. Honeywell shall not be responsible for the suitability of the Training Materials for the customer's particular purpose. All intellectual property rights in the Training Materials supplied by Honeywell and any modifications or improvements thereto whether or not performed at the customer’s request are owned solely by Honeywell, unless designated as otherwise by Honeywell. All rights thereto shall remain with Honeywell. Honeywell does not grant the customer any rights to modify, copy, or distribute the Training Materials for any reason.

Site Course Manager Qualification:

The customer may select individuals for training by Honeywell to become qualified Customer Site Course Managers. Only qualified Site Course Managers will be authorized to use Honeywell-supplied Training Materials. Individuals selected by the customer for training must meet the qualifications defined in the Automation College proposal.
Upon successful completion of the Honeywell training program and after they have demonstrated their competency in teaching the Automation College course to the sole satisfaction of Honeywell, they will be certified by Honeywell as Customer Site Course Managers for specific courses. Honeywell does not warrant or represent any training provided by any Customer Site Course Managers, nor guarantee the quality of the training provided by the Customer Site Course Managers and assumes no responsibility for training given by the Customer Site Course Managers.

**CONFIDENTIAL INFORMATION - PROTECTION**

All Confidential Information disclosed to the customer by Honeywell shall remain the property of Honeywell and shall be kept confidential by the receiving party for a period of 15 years following the date of disclosure. "Confidential Information" means written or machine-readable information (or oral information reduced to writing that Honeywell considers proprietary or confidential). Licensed Software and unlicensed Software contained on the same media shall be kept confidential perpetually. These confidentiality obligations shall not apply to information, which is

- Publicly known at the time of disclosure or becomes publicly known through no fault of recipient,
• Known to recipient at the time of disclosure through no wrongful act of recipient,

• Received by recipient from a third party without restrictions similar to those in this section or independently developed by recipient. Customer may not transfer or disclose Confidential Information or assign its rights or obligations under this section without the prior written consent of Honeywell. All other transfers or assignments shall be null and void.

PRODUCTS SUPPLIED FOR USE IN CUSTOMER'S TRAINING PROGRAM
Honeywell may, at its discretion, provide the customer with certain Honeywell Products to be used in conjunction with the training classes conducted at the customer's site by Honeywell or the customer (the "Equipment/Software"). Honeywell, shall at all times, retain title to the Equipment/Software. The customer shall assume the risk of loss while the Equipment/Software is in the customer's possession. The customer shall reimburse Honeywell for all reasonable expenses to bring the Equipment/Software to the same condition as originally received by the customer or replace the Equipment/Software.

SOFTWARE LICENSE.
Honeywell grants to the customer under this Agreement, a nonexclusive license to use software provided to the customer under these Terms and Conditions ("Licensed Software") solely for the customer's own internal purposes in accordance with the
purchase order or proposal for training ("Licensed Use"). The customer shall not reverse compile, disassemble or otherwise reverse engineer any Licensed Software. Honeywell and its third-party suppliers shall retain sole ownership of the Licensed Software.

**Additional Licenses or Use.**
The customer must receive Honeywell's prior written consent and pay additional license fees before using Licensed Software outside the Licensed Use.

**Copies and Modifications.**
The customer may not modify the Honeywell course material except as authorized by Honeywell in writing.

**Transfer of Licensed Software.**

The customer may transfer its license to use the Licensed Software to a third-party only if Honeywell gives its prior written consent. In case the customer is not the end user of the Licensed Software, Honeywell hereby consents to the transfer of the Software to the end user provided:

- The customer first obtains the end user’s written agreement to accept these terms and thereafter provides Honeywell with a copy of said agreement, if so requested, and
The customer does not retain any copies of the Software unless otherwise authorized in writing by Honeywell.

**Term and Termination of License**

The license under this Agreement is effective on the date Honeywell ships or installs the Licensed Software, whichever is earlier. Honeywell may terminate the license under the Agreement if the customer defaults under this Agreement, and does not remedy such default within ten (10) days after receiving written notice thereof from Honeywell, or is in bankruptcy, insolvency, dissolution, or receivership proceedings. Upon termination of this Agreement, Honeywell may repossess the Software and all copies without further notice. Promptly upon Agreement termination, the customer shall immediately cease all use of Licensed Software and return or destroy, as directed by Honeywell, all copies of the Software.

**TRAINING MATERIALS WARRANTY**

Training Materials delivered on Software media, audio or visual tapes are warranted to be playable for a period of six (6) months from date of shipment. In the event of failure, replacements will be sent upon Honeywell's receipt of the defective media or tape. Before returning defective media or tapes, contact a Honeywell Customer Care Specialist to make arrangements at 1-(800)-852-3211.

UNLESS OTHERWISE AGREED TO IN WRITING, THE FOREGOING REPRESENTS HONEYWELL'S EXCLUSIVE
WARRANTY CONCERNING SOFTWARE MEDIA, VIDEO AND AUDIO TAPES AND HONEYWELL EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LIMITATION OF LIABILITY

IN NO EVENT SHALL HONEYWELL BE LIABLE FOR INCIDENTAL, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES.

COMPLIANCE WITH LAWS

The customer shall comply with all local laws and regulations applicable to the installation, use, import or export of Training Materials; Licensed Software and Confidential Information delivered under this agreement. The customer shall not knowingly transfer, either directly or indirectly, Training Materials, Software or Confidential Information.

GENERAL

Any change to or waiver under this agreement must be in writing; waiver in one case shall not be waiver in a subsequent case. No rights are granted except as expressly granted in this agreement. The laws of Arizona and the United States shall solely govern this
agreement and all related disputes, without regard to any conflicts of law provisions. Sections regarding Confidential Information, Software License, Limitation of Liability and Compliance with Laws shall survive termination. Notwithstanding anything to the contrary in other documents integrated with this agreement, this agreement shall govern with respect to all Training Materials, Confidential Information and Software delivered under this agreement.
FAQ's

1. What is the Professional Class-room Training Service?

The Professional Class-room Training Service is the conduction of class room training by full-time trainers for imparting knowledge, skill & performance on following fields of Industrial Automation through various overviews, essentials, basic, standard and advanced courses:

- **Generic** Process Control & Industrial Automation
- **DCS** - Experion PKS, TPS, TDC 3000
- **PLC** - LCS 620, AB, Triconex
- **Safety Control** - FSC, Triconex
- **SCADA** - PlantScape, FIX 32, SCAN 3000
- **Smart Transmitters** - Honeywell DE / HART
- **OM&S** - Automation
- **Systems & Networks**

2. How do I know which course is good for me?

Along with the details of the course, you will be furnished with pre-requisites for the course. If you have pre-requisites, it’s definitely good to attend these courses by you to
enhance your knowledge, skill and performance to further build your professional profile. If you are not sure about the courses that are most suitable to you, please get in touch with us.

3. **Do trainees get Certificates?**

   Yes, upon successful completion of the training course trainees get certificates.

4. **Does JRD ATC provide free accommodation for the stay in Pune during the in-center training?**

   No, we don’t provide free accommodation during for the stay in Pune for the JRD ATC training. On request, we do provide necessary and relevant assistance to get hotel reservations and booking for the stay in Pune. Trainees shall make the payments independently to settle the bill.

5. **Does JRD ATC provide free conveyance for attending the training?**

   No, we don’t provide free conveyance for attending training at JRD ATC. We do provide necessary and relevant assistance to get conveyance reservations and booking for attending training. Trainees shall make the payments independently to settle the bill.
6. **Is it possible to get only training material and/or courseware for your training courses?**

   No, we don’t supply only training material and/or courseware for the training courses. Participants get the relevant course material for the program.

7. **What is the Training Cancellation policy?**

   On a confirmed training seat, if the trainee informs three weeks prior to the scheduled course about his absence, training for him can be rescheduled for the same course but the training fees shall not be returned. If the trainee doesn’t intimate three weeks prior to the scheduled course about his absence the training, the slot gets consumed and no refund of the training fee or the rescheduling of the training shall be entertained. If JRD ATC has to cancel training the cancellations, the rescheduling information of training courses shall be intimated two weeks prior to the scheduled courses to respective confirmed trainees. Trainees will have the choice to attend the rescheduled training or will be given refunds of their training fees.

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