



Rashtriya Chemicals & Fertilizers Ltd.  
**Human Resource Development, Training Centre**



**Programme Schedule**  
**(1<sup>st</sup> April 2017 to 31<sup>st</sup> March 2018)**

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| <b>SR. NO.</b>    | <b>NAME OF PROGRAMME</b>                   | <b>LEVEL OF PARTICIPANTS</b> | <b>DUR. DAYS</b> | <b>STARTING DATE</b> | <b>COORDINATOR</b>          |
|-------------------|--|------------------------------|------------------|----------------------|-----------------------------|
| <b>April 2017</b> |  |                              |                  |                      |                             |
| 1.                | Legal Requirements & ROR                   | All Employees                | Half Day         | 12/04/2017           | D.B. Kale                   |
| 2.                | Best maintenance practices of compressors  | Tech. (Mech.)                | 1                | 13/04/2017           | Girish Labhane              |
| 3.                | Process Safety Management                  | All Employees                | Half Day         | 17/04/2017           | D.B. Kale                   |
| 4.                | Electrical Safety practice in industry     | Tech. (Elect.)               | 1                | 18/04/2017           | D.B. Kale                   |
| 5.                | Understanding of gas turbines              | Tech. (Elect.)               | 1                | 19/04/2017           | D.B. Kale                   |
| 6.                | Workshops on "Laser shaft alignment"       | Tech. (Mech.)                | 1                | 20/04/2017           | Girish Labhane              |
| 7.                | Understanding of gas turbines              | Officers (Elect.)            | 1                | 21/04/2017           | D.B. Kale                   |
| 8.                | First Aid                                  | All Employees                | Half Day         | 24/04/2017           | D.B. Kale                   |
| 9.                | Pipe & pipe fittings                       | Officer (Mech.)              | 1                | 24/04/2017           | Girish Labhane              |
| 10.               | Fluid Flow Operations                      | Operators                    | 1                | 25/04/2017           | Chandubabu                  |
| 11.               | DCS - Architecture, operation, maintenance | Tech. (Instr.)               | 1                | 25/04/2017           | H.K. Kadam/<br>Sheetal Mali |
| 12.               | First Aid                                  | All Employees                | Half Day         | 26/04/2017           | D.B. Kale                   |
| 13.               | Behavioral Based Safety                    | All Employees                | Half Day         | 28/04/2017           | D.B. Kale                   |
| 14.               | Analytical Aspects in Chemical Laboratory  | Operators                    | 1                | 29/04/2017           | Chandubabu                  |
| 15.               | Boilers Operation & Maintenance            | Officer (Mech.)              | 1                | 29/04/2017           | Girish Labhane              |

| May 2017 |  |                   |          |            |                             |
|----------|--|-------------------|----------|------------|-----------------------------|
| 16.      | Selection Maintenance & Protection of Transformers   | Tech. (Elect.)    | 1        | 04/05/2017 | D.B. Kale                   |
| 17.      | Procuring, installation and maintenance of DCS in plant                                      | Officers (Instr.) | 1        | 05/05.2017 | H.K. Kadam/<br>Sheetal Mali |
| 18.      | Best practices in Valve maintenance  | Tech. (Mech.)     | 1        | 05/05/2017 | Girish Labhane              |
| 19.      | IMS overview   | All Employees     | Half Day | 08/05/2017 | D.B. Kale                   |
| 20.      | PLC - Architecture, operation, maintenance   | Tech. (Instr.)    | 1        | 10/05/2017 | H.K. Kadam/<br>Sheetal Mali |
| 21.      | Electrical Safety & The control of Hazardous Energy (LOTO) devices removed & personal safety | Officers (Elect.) | 1        | 11/05/2017 | D.B. Kale                   |
| 22.      | Improve reliability of pumps using best maintenance practices                                | Tech. (Mech.)     | 1        | 11/05/2017 | Girish Labhane              |
| 23.      | Mass Transfer Operations   | Operators         | 1        | 11/05/2017 | Chandubabu                  |
| 24.      | Importance of HIRA,EAIR and QO   | All Employees     | Half Day | 15/05/2017 | D.B. Kale                   |
| 25.      | Understanding of Turbine maintenance   | Tech.(Mech.)      | 1        | 19/05/2017 | Girish Labhane              |
| 26.      | Total Productive Maintenance   | All Employees     | 1        | 22/05/2017 | D.B. Kale/                  |
| 27.      | Process Calculations   | Operators         | 1        | 23/05/2017 | Chandubabu                  |
| 28.      | Analytical Instruments - Principle , SHS components  | Tech. (Instr.)    | 1        | 24/05/2017 | H.K. Kadam/<br>Sheetal Mali |
| 29.      | Advance techniques in corrosion prevention   | Tech. (Mech.)     | 1        | 26/05/2017 | Girish Labhane              |
| 30.      | Electrical Safety practice in industry   | Tech. (Elect.)    | 1        | 29/05/2017 | D.B. Kale                   |

| <b>June 2017</b> |   |                   |          |            |                             |
|------------------|---|-------------------|----------|------------|-----------------------------|
| 31.              | Best maintenance practices in mechanical seals        | Tech. (Mech.)     | 1        | 02/06/2017 | Girish Labhane              |
| 32.              | Environment Management System                         | All Employees     | Half Day | 06/06/2017 | D.B. Kale                   |
| 33.              | SIS - Architecture, operation, maintenance            | Tech. (Instr.)    | 1        | 06/06/2017 | H.K. Kadam/<br>Sheetal Mali |
| 34.              | Electrical safety practice in Industry                | Tech. (Mech.)     | 1        | 08/06/2017 | Girish Labhane              |
| 35.              | Electrical drawing reading and fault finding          | Tech. (Elect.)    | 1        | 13/06/2017 | D.B. Kale                   |
| 36.              | Mechanical Seal and dry gas seal                      | Officer (Mech.)   | 1        | 15/06/2017 | Girish Labhane              |
| 37.              | * Understanding of Vibration monitoring System        | Tech. (Instr.)    | 1        | 15/06/2017 | H.K. Kadam/<br>Sheetal Mali |
| 38.              | Safety Work Permit                                    | All Employees     | Half Day | 20/06/2017 | D.B. Kale                   |
| 39.              | Waste Water Treatment                                 | Operators         | 1        | 22/06/2017 | Chandubabu                  |
| 40.              | Best practices in bearing maintenance and lubrication | Tech. (Mech.)     | 1        | 23/06/2017 | Girish Labhane              |
| 41.              | Procuring, installation, programming of PLC in plant  | Officers (Instr.) | 1        | 27/06/2017 | H.K. Kadam/<br>Sheetal Mali |
| 42.              | Electrical Safety practice in industry                | Tech. (Elect.)    | 1        | 27/06/2017 | D.B. Kale                   |
| 43.              | Process Control & Instrumentation                     | Operators         | 1        | 28/06/2017 | Chandubabu                  |
| 44.              | Overview Five S                                       | All Employees     | Half Day | 29/06/2017 | D.B. Kale                   |

\*new programme

| July 2017 |  |                |          |            |                             |
|-----------|--|----------------|----------|------------|-----------------------------|
| 45.       | Fire protection system   | All Employees  | Half Day | 05/07/2017 | D.B. Kale                   |
| 46.       | * Knowhow of Weigh Feeder System and Belt weighing System      | Tech. (Instr.) | 1        | 05/07/2017 | H.K. Kadam/<br>Sheetal Mali |
| 47.       | Electrical safety practices in industry                        | Tech. (Elect.) | 1        | 12/07/2017 | D.B. Kale                   |
| 48.       | Automation Systems (DCS, PLC & SCADA)                          | Operators      | 1        | 13/07/2017 | Chandubabu                  |
| 49.       | * Rigging Equipment's  | Tech. (Mech.)  | 1        | 15/07/2017 | Girish Labhane              |
| 50.       | Accident prevention principals                                 | All Employees  | Half Day | 19/07/2017 | D.B. Kale                   |
| 51.       | * Understanding Electronic Governor system and its application | Tech. (Instr.) | 1        | 19/07/2017 | H.K. Kadam/<br>Sheetal Mali |
| 52.       | * Material selection for highly corrosive fluids               | Tech. (Mech.)  | 1        | 20/07/2017 | Girish Labhane              |
| 53.       | Total Productive Maintenance                                   | All Employees  | 1        | 26/07/2017 | D.B. Kale/                  |
| 54.       | * Best heat exchanger maintenance practices                    | Tech. (Mech.)  | 1        | 27/07/2017 | Girish Labhane              |

\*new programme

| August 2017 |   |                   |          |            |                             |
|-------------|---|-------------------|----------|------------|-----------------------------|
| 55.         | Bearings, lubrication and alignment best practices  | Tech. (Elect.)    | 1        | 02/08/2017 | D.B. Kale                   |
| 56.         | Advance techniques in corrosion prevention  | Tech. (Mech.)     | 1        | 03/08/2017 | Girish Labhane              |
| 57.         | * Understanding of Vibration monitoring System and Electronic Governor system and its application | Officers (Instr.) | 1        | 03/08/2017 | H.K. Kadam/<br>Sheetal Mali |
| 58.         | * Overview of sensors used in fertilizer, gas, acid and utility plants                            | Tech. (Instr.)    | 1        | 09/08/2017 | H.K. Kadam/<br>Sheetal Mali |
| 59.         | IMS Documentation and Audit   | All Employees     | Half Day | 09/08/2017 | D.B. Kale                   |
| 60.         | Simulation of the Chemical Process  | Operators         | 1        | 10/08/2017 | Chandubabu                  |
| 61.         | * OSHAS Training for Material Handling Equipment's  | Tech. (Mech.)     | 1        | 10/08/2017 | Girish Labhane              |
| 62.         | Conservation and management of electrical energy  | Tech. (Elect.)    | 1        | 16/08/2017 | D.B. Kale                   |
| 63.         | Waste Water Treatment   | Operators         | 1        | 17/08/2017 | Chandubabu                  |
| 64.         | Workshops on "Laser shaft alignment"  | Officer (Mech.)   | 1        | 19/08/2017 | Girish Labhane              |
| 65.         | Knowhow of transmitters used in fertilizer, gas, acid and utility plants                          | Tech. (Instr.)    | 1        | 22/08/2017 | H.K. Kadam/<br>Sheetal Mali |
| 66.         | Power Business Tariff & Regulation  | Officers (Elect.) | 1        | 23/08/2017 | D.B. Kale                   |
| 67.         | Analytical Aspects in Chemical Laboratory   | Operators         | 1        | 23/08/2017 | Chandubabu                  |
| 68.         | Improve reliability of pumps using best maintenance practices                                     | Officer (Mech.)   | 1        | 26/08/2017 | Girish Labhane              |
| 69.         | Emergency Action Plan(ECP)  | All Employees     | Half Day | 30/08/2017 | D.B. Kale                   |

\*new programme

| September 2017 |  |                 |          |            |                             |
|----------------|--|-----------------|----------|------------|-----------------------------|
| 70.            | Behavioral Based Safety                                    | All Employees   | Half Day | 06/09/2017 | D.B. Kale                   |
| 71.            | Control Valves - Types, calibration and testing procedures | Tech. (Instr.)  | 1        | 07/09/2017 | H.K. Kadam/<br>Sheetal Mali |
| 72.            | Best practices in Valve maintenance                        | Tech.(Mech.)    | 1        | 07/09/2017 | Girish Labhane              |
| 73.            | Understanding power generation through solar energy        | Tech. (Elect.)  | 1        | 13/09/2017 | D.B. Kale                   |
| 74.            | Electrical safety practice in Industry                     | Tech. (Mech.)   | 1        | 14/09/2017 | Girish Labhane              |
| 75.            | Cooling Water Treatment                                    | Officers        | 1        | 15/09/2017 | Chandubabu                  |
| 76.            | Legal Requirements & ROR                                   | All Employees   | Half Day | 20/09/2017 | D.B. Kale                   |
| 77.            | * Valve Positioners - Basic principle, construction, types | Tech. (Instr.)  | 1        | 20/09/2017 | H.K. Kadam/<br>Sheetal Mali |
| 78.            | Fluid Flow Operations                                      | Operators       | 1        | 21/09/2017 | Chandubabu                  |
| 79.            | Welding Technology & Metallurgy                            | Officer (Mech.) | 1        | 21/09/2017 | Girish Labhane              |
| 80.            | Total Productive Maintenance                               | All Employees   | 1        | 27/09/2017 | D.B. Kale/                  |
| 81.            | Heat Transfer Operations                                   | Operators       | 1        | 28/09/2017 | Chandubabu                  |

\*new programme

| October 2017 |   |                   |          |            |                             |
|--------------|---|-------------------|----------|------------|-----------------------------|
| 82.          | IMS overview  | All Employees     | Half Day | 04/10/2017 | D.B. Kale                   |
| 83.          | Improve reliability of pumps using best maintenance practices                         | Tech. (Mech.)     | 1        | 05/10/2017 | Girish Labhane              |
| 84.          | * Best ways to achieve optimum Energy Conservation                                    | Tech. (Instr.)    | 1        | 10/10/2017 | H.K. Kadam/<br>Sheetal Mali |
| 85.          | Advanced low voltage switch gear equipment's features & maintenance                   | Tech. (Elect.)    | 1        | 11/10/2017 | D.B. Kale                   |
| 86.          | Best maintenance practices of compressors   | Tech. (Mech.)     | 1        | 12/10/2017 | Girish Labhane              |
| 87.          | Mass Transfer Operations  | Operators         | 1        | 13/10/2017 | Chandubabu                  |
| 88.          | Electrical Load management system in RCF  | Officers (Elect.) | 1        | 18/10/2017 | D.B. Kale                   |
| 89.          | * Overview of measurement techniques used in fertilizer, gas, acid and utility plants | Officers (Instr.) | 1        | 19/10/2017 | H.K. Kadam/<br>Sheetal Mali |
| 90.          | Best practices in bearing maintenance and lubrication                                 | Tech. (Mech.)     | 1        | 19/10/2017 | Girish Labhane              |
| 91.          | Process Calculations  | Operators         | 1        | 24/10/2017 | Chandubabu                  |
| 92.          | Overview Five S   | All Employees     | Half Day | 25/10/2017 | D.B. Kale                   |
| 93.          | DCS - Architecture, operation, maintenance  | Tech. (Instr.)    | 1        | 25/10/2017 | H.K. Kadam/<br>Sheetal Mali |
| 94.          | Advanced Unit Operations  | Officers          | 1        | 31/10/2017 | Chandubabu                  |

\*new programme



| November 2017 |  |                |          |            |                             |
|---------------|--|----------------|----------|------------|-----------------------------|
| 95.           | PLC - Architecture, operation, maintenance                 | Tech. (Instr.) | 1        | 07/11/2017 | H.K. Kadam/<br>Sheetal Mali |
| 96.           | Safety Work Permit   | All Employees  | Half Day | 08/11/2017 | D.B. Kale                   |
| 97.           | * Overview & Maintenance of Gear Box                       | Tech. (Mech.)  | 1        | 09/11/2017 | Girish Labhane              |
| 98.           | Size Reduction & Separation Processes                      | Operators      | 1        | 11/11/2017 | Chandubabu                  |
| 99.           | Best practices of operation & maintenance of UPS & Battery | Tech. (Elect.) | 1        | 15/11/2017 | D.B. Kale                   |
| 100.          | Process Control & Instrumentation                          | Operators      | 1        | 16/11/2017 | Chandubabu                  |
| 101.          | * Understanding critical process equipment's               | Tech. (Mech.)  | 1        | 17/11/2017 | Girish Labhane              |
| 102.          | Energy Management - ISO 50001                              | All Employees  | 1        | 22/11/2017 | D.B. Kale                   |
| 103.          | * Knowhow of Weigh Feeder System and Belt weighing System  | Tech. (Instr.) | 1        | 22/11/2017 | H.K. Kadam/<br>Sheetal Mali |
| 104.          | Electrical safety practice in Industry                     | Tech. (Mech.)  | 1        | 23/11/2017 | Girish Labhane              |
| 105.          | Automation Systems (DCS, PLC & SCADA)                      | Operators      | 1        | 28/11/2017 | Chandubabu                  |
| 106.          | Process Safety Management                                  | All Employees  | Half Day | 29/11/2017 | D.B. Kale                   |

\*new programme

| December 2017 |   |                   |          |            |                             |
|---------------|---|-------------------|----------|------------|-----------------------------|
| 107.          | * Best ways to achieve optimum Energy Conservation                                      | Officers (Instr.) | 1        | 02/12/2017 | H.K. Kadam/<br>Sheetal Mali |
| 108.          | Best maintenance practices in mechanical seals  | Tech. (Mech.)     | 1        | 07/12/2017 | Girish Labhane              |
| 109.          | * Understanding Electronic Governor system and its application                          | Tech. (Instr.)    | 1        | 07/12/2017 | H.K. Kadam/<br>Sheetal Mali |
| 110.          | Simulation of the Chemical Process  | Operators         | 1        | 08/12/2017 | Chandubabu                  |
| 111.          | Importance of HIRA,EAIR and QO  | All Employees     | Half Day | 13/12/2017 | D.B. Kale                   |
| 112.          | * Overview and Maintenance of Crane Equipment including Mobile, Overhead and Hoist etc. | Tech. (Mech.)     | 1        | 14/12/2017 | Girish Labhane              |
| 113.          | Waste Water Treatment   | Operators         | 1        | 19/12/2017 | Chandubabu                  |
| 114.          | Variable Frequency Drives – Overview and configuration                                  | Tech. (Elect.)    | 1        | 20/12/2017 | D.B. Kale                   |
| 115.          | Calculation of pressure drop and heat exchanger performance                             | Officer (Mech.)   | 1        | 21/12/2017 | Girish Labhane              |
| 116.          | Environment Management System   | All Employees     | Half Day | 27/12/2017 | D.B. Kale                   |

\*new programme

| <b>January 2018</b> |  |                 |          |            |                             |
|---------------------|--|-----------------|----------|------------|-----------------------------|
| 117.                | Road Safety  | All Employees   | Half Day | 03/01/2018 | D.B. Kale                   |
| 118.                | Electrical safety practice in Industry                                   | Tech. (Mech.)   | 1        | 04/01/2018 | Girish Labhane              |
| 119.                | Understanding Electrical protection with numerical relays                | Tech. (Elect.)  | 1        | 10/01/2018 | D.B. Kale                   |
| 120.                | Knowhow of transmitters used in fertilizer, gas, acid and utility plants | Tech. (Instr.)  | 1        | 10/01/2018 | H.K. Kadam/<br>Sheetal Mali |
| 121.                | Analytical Aspects in Chemical Laboratory                                | Operators       | 1        | 12/01/2018 | Chandubabu                  |
| 122.                | Corrosion and Corrosion prevention Techniques                            | Officer (Mech.) | 1        | 12/01/2018 | Girish Labhane              |
| 123.                | Accident prevention principals   | All Employees   | Half Day | 17/01/2018 | D.B. Kale                   |
| 124.                | Improving plant reliability through condition monitoring of compressors  | Officer (Mech.) | 1        | 18/01/2018 | Girish Labhane              |
| 125.                | Advanced Unit Operations   | Officers        | 1        | 19/01/2018 | Chandubabu                  |
| 126.                | Control Valves - Types, calibration and testing procedures               | Tech. (Instr.)  | 1        | 24/01/2018 | H.K. Kadam/<br>Sheetal Mali |
| 127.                | Total Productive Maintenance   | All Employees   | 1        | 24/01/2018 | D.B. Kale/                  |
| 128.                | Process Calculations   | Operators       | 1        | 30/01/2018 | Chandubabu                  |

| <b>February 2018</b> |   |                |             |            |                             |
|----------------------|---|----------------|-------------|------------|-----------------------------|
| 129.                 | * Valve Positioners - Basic principle, construction, types  | Tech. (Instr.) | 1           | 07/02/2018 | H.K. Kadam/<br>Sheetal Mali |
| 130.                 | Workshops on "Laser shaft alignment"                        | Tech. (Mech.)  | 1           | 08/02/2018 | Girish Labhane              |
| 131.                 | Heat Transfer Operations                                    | Operators      | 1           | 09/02/2018 | Chandubabu                  |
| 132.                 | IMS Documentation and Audit                                 | All Employees  | Half<br>Day | 14/02/2018 | D.B. Kale                   |
| 133.                 | * Best ways to achieve optimum Energy Conservation          | Tech. (Instr.) | 1           | 15/02/2018 | H.K. Kadam/<br>Sheetal Mali |
| 134.                 | * Overview and Maintenance of Material Handling Equipment's | Tech. (Mech.)  | 1           | 15/02/2018 | Girish Labhane              |
| 135.                 | Mass Transfer Operations                                    | Operators      | 1           | 16/02/2018 | Chandubabu                  |
| 136.                 | PLC overview and programming                                | Tech. (Elect.) | 1           | 21/02/2018 | D.B. Kale                   |
| 137.                 | Size Reduction & Separation Processes                       | Operators      | 1           | 23/02/2018 | Chandubabu                  |
| 138.                 | Emergency Action Plan(ECP)                                  | All Employees  | Half<br>Day | 28/02/2018 | D.B. Kale                   |

\*new programme

| <b>March 2018</b> |  |                   |   |            |                |
|-------------------|--|-------------------|---|------------|----------------|
| 139.              | Best practices in bearing maintenance and lubrication                | Tech. (Mech.)     | 1 | 08/03/2018 | Girish Labhane |
| 140.              | Advanced electrical measuring instruments – features and application | Tech. (Elect.)    | 1 | 14/03/2018 | D.B. Kale      |
| 141.              | Process Control & Instrumentation                                    | Operators         | 1 | 15/03/2018 | Chandubabu     |
| 142.              | Bearing and Lubrication  | Officer (Mech.)   | 1 | 16/03/2018 | Girish Labhane |
| 143.              | Electrical energy Conservation and management                        | Officers (Elect.) | 1 | 21/03/2018 | D.B. Kale      |
| 144.              | Automation Systems (DCS, PLC & SCADA)                                | Operators         | 1 | 23/03/2018 | Chandubabu     |
| 145.              | Total Productive Maintenance   | All Employees     | 1 | 28/03/2018 | D.B. Kale/     |
| 146.              | Cooling Water Treatment  | Officers          | 1 | 30/03/2018 | Chandubabu     |