



INDIAN VALVE AND ACTUATOR MANUFACTURERS ASSOCIATION

Rev: 1

<b>IVAMA – Technical Webinars for Skill Development Basic Program 9</b>			
<b>Webinar</b>	<b>Topic</b>	<b>Date</b>	<b>Day</b>
1	Basics of Valves and Pipes	22-Nov-24	Friday
2	Different Types of Valves and Selection	25-Nov-24	Monday
3	Codes and Standards for Valves and Actuators	26-Nov-24	Tuesday
4	Materials of Construction for Valve Shell Components	27-Nov-24	Wednesday
5	Materials of Construction for Valve Trim and Sealing Components	29-Nov-24	Friday
6	Valve Operation	02-Dec-24	Monday
7	Pressure Testing of Valves	03-Dec-24	Tuesday
	<b>Examination</b>	<b>10-Dec-24</b>	<b>Tuesday</b>

Timing: 02:30 pm to 04:30 pm

### **General Guidelines for the Webinars:**

- The content details of the webinars of Basic Program are given in Annexure A.
- The webinars shall be conducted using Microsoft Teams Meeting platform.
- Normally each webinar shall be for 100 to 110 minutes followed by 10 minutes for questions and answers.

### **Fee for Member Companies:**

- Rs 1500\* per webinar per participant
- If one participant joins in all webinars, Rs 9000\* per participant
- For 5 participants and more per company in all webinars, Rs 8000\* per participant
- For 10 participants and more per company in all webinars, Rs 7000\* per participant
- For webinars exclusively for employees of a company for all webinars (20 min to 30 max participants), Rs 6000\* per participant

### **Fee for Non-Member Companies:**

- Rs 2000\* per webinar per participant
- If one participant joins in all webinars, Rs 12000\* per participant
- For 5 participants and more per company in all webinars, Rs 10500\* per participant
- For 10 participants and more per company in all webinars, Rs 9000\* per participant



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### **Certificate:**

- "Certificate of Completion" shall be issued to participants who attend all webinars of the Program and qualify for the examination with above 75% mark. Participants who qualify with less than 75% mark or who do not take examination, "Certificate of Participation" shall be issued.

## **Annexure A**

### **Webinar 1: Basics of Valves and Pipes:**

- Brief history of Valves; Basics of Pipes; Different functions of Valves; Basic principles of flow control; Basic types of valves; valve size and pressure rating; special and intermediate classes; Definition of Valve terminologies.

### **Webinar 2: Different Types of Valves and Selection:**

- Different types of valves: Gate, Globe, Check, Floating ball, Trunnion mounted ball; Butterfly; Plug; Diaphragm; Applicable standards; Advantages and limitations of each type; Basis for selection of particular type of valve.

### **Webinar 3: Codes and Standards for Valves and Actuators:**

- Boiler disasters; Boiler codes; Safety and Interchangeability; Standardization bodies; Different end connections; Face-to-face dimensions; Material standards; Standards for valves and actuators; Metrification; Standards for pressure testing; Functional qualification testing; Customers' specifications; Applicability of standards.

### **Webinar 4: Materials of Construction for Valve Shell Components:**

- Engineering materials; Different forms of materials; Advantages and limitations; Pressure containing components; Cast iron, Ductile iron, Carbon steels, Low alloy steels, Alloy steels and Stainless steels; Special and exotic materials; Temperature limitations; NACE Requirements; Selection of materials.

### **Webinar 5: Materials of Construction for Valve Trim and Sealing Components:**

- Trim components and codifications as per API; Trim materials; Sealing components – Gaskets and packing; Elastomers and plastics; Temperature limitations.

### **Webinar 6: Valve Operation:**

- Manual operation; Indicator; Locking Arrangements; Interlocking; Extension Spindle; Buried Application; Gear Operation and Power operation.

### **Webinar 7: Pressure Testing of Valves:**

- Applicable Standards; Shell test; Seat test; Hydrostatic and pneumatic test; Torque test; Supplementary tests; Remote inspection; Site tests.