



INDIAN VALVE AND ACTUATOR MANUFACTURERS ASSOCIATION

<b>IVAMA – Technical Webinars for Skill Development Basic Program</b>			
<b>Webinar</b>	<b>Topic</b>	<b>Day</b>	<b>Date</b>
1	Basics of Valves and Pipes	Wednesday	15-May-24
2	Different Types of Valves and Selection	Friday	17-May-24
3	Codes and Standards for Valves and Actuators	Monday	20-May-24
4	Materials of Construction for Valve Shell Components	Wednesday	22-May-24
5	Materials of Construction for Valve Trim and Sealing Components	Friday	24-May-24
6	Valve Operation	Monday	27-May-24
7	Pressure Testing of Valves	Wednesday	29-May-24
	<b>Examination</b>	<b>Wednesday</b>	<b>05-Jun-24</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.

### **Charges for Member Companies:**

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

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

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



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- Certificate of Completion shall be issued to participants who attend all webinars of Basic Program and qualify the examination with 75% mark. Participants who do not qualify or who do not take examination, participation certificate shall be issued.

## **Annexure A**

### **Basic Program**

#### **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 valve type.

#### **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.