



INDIAN VALVE AND ACTUATOR MANUFACTURERS ASSOCIATION

<b>IVAMA – Technical Webinars for Skill Development Advance Program 4</b>			
<b>Webinar</b>	<b>Topic</b>	<b>Day</b>	<b>Date</b>
1	Sealing Technology in Valves	Wednesday	12-Jun-24
2	Design Methodology for Valves	Friday	14-Jun-24
3	Welding Technology in Valves	Monday	17-Jun-24
4	Non-Destructive Examination (NDE) in Valves	Wednesday	19-Jun-24
5	Flow Characteristics and CV Values of Valves	Friday	21-Jun-24
6	Functional Qualification Tests (FQT) on Valves and Actuators	Monday	24-Jun-24
7	Common Problems and IOM of Valves	Wednesday	26-Jun-24
	<b>Examination</b>	<b>Wednesday</b>	<b>03-Jul-24</b>

Timing: 2:30 pm to 4:30 pm.

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

- The content details of the webinars of Advance 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 Advance Program and qualify 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 Sealing Technology in Valves**

- Principle of Sealing; Metal & Soft Seats; Pressure Joint Design (Body/Bonnet/Cover and Gaskets/Seals; Fasteners) and Stem Seals; Fugitive Emissions; Cryogenic, Severe and other Special Services.

### **Webinar-2 Design Methodology**

- Design philosophy; New Product Development and Best Practices; International Codes applicable for Valve Design - ASME Sec II; III & VIII; API Stds; ASME B16.34; Finite Element Analysis/Computational Fluid Dynamics.

### **Webinar-3: Welding Technology in Valves**

- Need for welding in Valves; Different welding processes and Selection; Overlaying of hard faces in Valves; Welder Qualification; Inspection of Welds

### **Webinar-4: Non-Destructive Examination (NDE) in Valves**

- Need for NDE; Various volumetric and surface NDE; Personnel Qualification; Standards for NDE;

### **Webinar-5: Flow Characteristics of Valves**

- Definition of Cv and Kv; Different flow characteristics of Valves; Theoretical Flow Calculation – Empirical and CFD; Experimental Flow Testing; Flow induced problems

### **Webinar-6 Functional Qualification Tests (FQT)**

- Need for FQT; Cycle Test (Ambient Temperature; High Temperature); Fire Test; Cryogenic Test; Fugitive Test; Natural Frequency/Seismic Test; Pipe Load Test; Flow Test; Care to be taken during FQT.

### **Webinar-7 Common Problems and IOM of Valves**

- Customer Complaints: Leakage and Operation.
- IOM: Bathing Curve; Transportation; Storage; Installation; Operation; Maintenance; Trouble Shooting.