



INDIAN VALVE AND ACTUATOR MANUFACTURERS ASSOCIATION

IVAMA – Technical Webinars for Skill Development Basic Program 10			
Webinar	Topic	Date	Day
1	Basics of Valves and Pipes	03-Feb-25	Monday
2	Different Types of Valves and Selection	07-Feb-25	Friday
3	Codes and Standards for Valves and Actuators	10-Feb-25	Monday
4	Materials of Construction for Valve Shell Components	12-Feb-25	Wednesday
5	Materials of Construction for Valve Trim and Sealing Components	14-Feb-25	Friday
6	Valve Operation	17-Feb-25	Monday
7	Pressure Testing of Valves	19-Feb-25	Wednesday
	Examination	26-Feb-25	Wednesday

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.