



**CANADIAN
AUTOMATIC
SPRINKLER
ASSOCIATION**

PUMPS FOR FIRE PROTECTION

PURPOSE- This one-day program provides attendees with vital information about the design and installation of fire pumps. The NFPA 20 and the NFPA Fire Pump Handbook are used as reference material. This is an intermediate level class. This seminar is designed to increase the participant's knowledge and application of fire pumps in fire protection systems and to familiarize the attendee with the NFPA Standards that govern the proper design and installation of fire pumps.

WHO SHOULD ATTEND?

- Code Officials
- Designers/Contractors
- Design Professionals Architects/Engineers
- Building Owners/Managers
- Installers
- Insurance Representatives

MATERIALS- Each attendee will receive an NFSA workbook and other prepared materials. *It is recommended that each attendee bring their own copy of NFPA 20.*

When: December 13, 2010

City: Vancouver, BC

Location: Vancouver Fire & Rescue

1330 Chess Street

Vancouver, BC

V6A 4K6

Classroom 1 & 2

Time: 8:00am to 5:00pm

Fee: \$275 per person per day + 12% HST

15% Discount when you register three people

****15% Discount when you register for all three days****

*****Includes work book, continental breakfast, morning and afternoon coffee break*****

LEARNING OBJECTIVES

- The hydraulic formulas used in pump design
- When is a pump required
- Distinguish between types of pumps and their drivers
- The requirements for sizing and placement
- Piping and valves required
- Testing procedures

COURSE OUTLINE

- Basic Hydraulics
- Need for fire pumps
- Types of pumps and drivers
- Pump placement and sizing
- Piping and appurtenances
- Electric drivers and controllers
- Diesel drivers and controllers
- Acceptance testing

REGISTRATION

Name: _____

Company: _____

Address: _____

City/Town: _____

Tel: () _____ Fax: () _____ E-mail: _____

Method of payment: _____ Cheque _____ VISA _____ Master Card _____ Amex _____

Credit Card Information: _____ Expiry Date _____

Sub-Total: _____

(HST #R100760123) HST 12% _____

TOTAL _____

Registration form and payment must be returned to office by: December 6, 2010
C.A.S.A., Attn: Seminar Coordinator 335 Renfrew Dr., Suite 302 Markham, ON L3R 9S9
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