

# FIRE & SAFETY DIVISION NEWS



SEPTEMBER 1999

TRAINING FOR SAFER COMMUNITIES

## We couldn't have done it without them...



### Cruise ship crews receive training while in Vancouver

Three days each week during the summer, staff from cruise ships that come through Vancouver Port are transported to the Maple Ridge Campus for training in emergency duties that include use of portable fire extinguishers, live fire training and theoretical instruction in crowd management. In light of the recent fires on board cruise ships there is a heightened awareness that staff and crew on board ships are the only resource available to attack and control incidents that occur.

The expansion of the hazardous material and rail safety area at the Maple Ridge Campus is substantially complete. At first glance it becomes clear that the project could not have gone ahead without the support and assistance of the rail companies, industry, regulatory agencies and others that are dedicated to the success of this project.

Although there have been several dozen individuals involved, the donations of time and equipment to this project came from the following organizations and agencies: **BC Rail, Burlington Northern/SantaFe, CN Rail, Cominco Ltd., CP Rail, FMC, ICX, PROCOR, Sterling Pulp Chemicals Ltd., Transport Canada, and WAW Inspection Service.** The contributions range from rail tank cars to capping kits to SCBA packs –

and of course hundreds of feet of track and railway ties.

The relocation of the hazardous material and rail safety program to the expanded area allowed for the development of four separate training pads. These pads are strategically placed in order to take advantage of the terrain and to duplicate the

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### Highlights...

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# New training ground for Hazmat derailments

*It's a train derailment in the mountainous regions of BC's West Coast. Ten rail cars have been mangled. Hazardous materials are leaking into the environment. The emergency response team goes into action...*

It could be the real thing, but this time it's a training exercise, part of a unique, new, training program that exists in only one place in Canada.

The program is the Rail Tank Car Specialist, and it's delivered by the Fire and Safety Division of the Justice Institute of BC (the JI).

"Our clients need this type of training, and until now it was only available in the U.S.," says John Vokes, Director of the Fire and Safety Division at the JI. "When we were planning the expansion of our training site we took the opportunity to develop the course at the same time. The support we received from industry to do that was incredible" Vokes adds.

The setting for the program is a train derailment which is part of the JI's newly completed five acre hazardous materials training site in the mountainous terrain of Maple Ridge, BC. The area's mild climate allows the site to be used for training year round.

The haz mat site includes three training pads and a derailment. The first pad has



rail tank cars and road chemical carriers. It is used to demonstrate operations including leak sealing, product transfer, grounding and bonding, and flaring operations. The second pad will have a warehouse and will be used to demonstrate a variety of warehouse scenarios. The third pad is a flexible one, used to simulate a variety of incidents. The derailment, which involves high pressure and low pressure tank cars and intermodal containers, is also unique – it's the only training site like it in Canada.

The Rail Tank Car Specialist program is five days (45 hours) of advanced training for emergency professionals who need to respond to train derailments involving hazardous materials. This intensive program is scenario based, and combines classroom instruction with hands on practice.

The program was nine months in the making, and was developed with the help of a committee of industry representatives. Members from the rail industry, chemical industry and Transport Canada were involved. The committee worked with the JI to determine the learning objectives for the course, which served as the basis for the course content and manual. In June the program was put through a test run with a group of technical experts from rail, chemical and forest industries, and government agencies.

"A lot of agencies don't have exposure to derailments very often, so there's not a lot of opportunity to gain experience," says Dave Glen who's responsible for dangerous commodities for CP Rail, "this is a good place to get that exposure. The course was put together and critiqued by people with real experience in the industry," he adds.

"The program has lots of great content" says Leo Leavitt, a technical specialist on Cominco Ltd.'s emergency response team in Trail, BC. "our class was mostly industry, but it's relevant for fire departments too."

"These are the tank cars we use. . . and the equipment is similar to what we'd use in an incident," adds Doug Clouda of CXY Chemicals emergency response team.

An added bonus of the program is the mix of participants in the class. "This is a good chance to establish working relationships with people," says Clouda "if you've practiced together and established a mutual confidence level, things will go smoother when you're working together on an actual incident."

"With a cross section of people, you learn from the others in the class . . you become a resource for each other" says Cominco's Leo Leavitt.

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# Fire Service Leadership Diploma

The Fire Service Leadership Diploma Program has received a huge response. Over 100 students have registered for Diploma Distance Ed courses for the fall of 1999. The JI Fire & Safety Division is also offering Fire Officer I in a classroom format this fall and has 21 students enrolled.

The reports from the students who registered for the first semester are very positive. Students feel the courses are useful and relevant to the fire service.

## Fee Increase Announcement

We have unfortunately underestimated the tutor costs for the course and need to increase the fees to cover this difference.

Distance Education courses as of April 1/2000 will increase to \$225.00 per course (plus textbooks). We are notifying you of this increase now so you can budget for next year.

The JI appreciates the continued support of our programs from the students and the fire service.

## Union Support for the Fire Service Leadership Diploma/Certificate

The British Columbia Professional Fire Fighter's Association provided significant input into the design of the Fire Service Leadership Diploma/Certificate Program and Bob Brett, President of the BCPFFA in a letter to his membership said,

"This document (Fire Service Leadership Diploma/Certificate Program) has been adopted by your Executive Boards and I believe this new course meets the needs and requirements for our membership".

## Fire Service Leadership Diploma/ Certificate Courses Schedule Winter Term 2000

**January 4 - March 31, 2000**

**Registration Deadline December 14, 1999**

- F105 Station Officer Dealing with People
- F110 Station Officer Dealing with New Operations
- F115 Fire Station Environment
- F150 Fire Prevention Management\*
- F155 Fire Suppression Management\*
- F205 Communications: Study Skills
- F225 Municipal Finance\*
- F220 Fire Service Strategic Planning 1\*

The following courses are offered throughout the year when the minimum numbers of students to make up a class are available.

- S101 Fire Service Instructor 1
- S102 Fire Service Instructor 2
- F170 Managing Company – Tactics & Operations\*
- F160 Strategic Operations & Unified Command

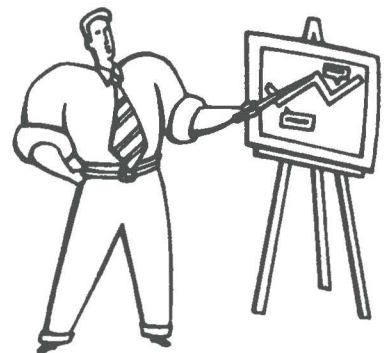
*\* See course name changes below.*

For more information please contact Sherri Rudeloff at (604) 528-5675 or e-mail [srudeloff@jibc.bc.ca](mailto:srudeloff@jibc.bc.ca) to register.

## Fire Service Leadership Diploma\Certificate

### COURSE NAME CHANGES

- |             |            |  |
|-------------|------------|--|
| <b>F120</b> | <i>Old</i> | Fire Strategy & Tactics & Building Construction                    |
|             | <b>New</b> | <b>Managing Company Tactical Operations</b>                        |
| <b>F150</b> | <i>Old</i> | Fire Protection Management: Prevention, Inspection & Investigation |
|             | <b>New</b> | <b>Fire Prevention Management</b>                                  |
| <b>F155</b> | <i>Old</i> | Fire Protection Management: Suppression & Control                  |
|             | <b>New</b> | <b>Fire Suppression Management</b>                                 |
| <b>F220</b> | <i>Old</i> | Master Planning I  |
|             | <b>New</b> | <b>Fire Service Strategic Planning I</b>                           |
| <b>F225</b> | <i>Old</i> | Financial Management in Fire Service                               |
|             | <b>New</b> | <b>Municipal Finance</b>   |





## TRAINING UPDATES

### Fire Sale of Edukits

The Justice Institute Fire & Safety Division is offering Edukit training binders which include written training material with a video for the price of \$40.00 plus GST and PST. This is a one time only offer. The cost includes shipping and handling. (Please note: not all Edukit titles are available)

### IFSTA Study Guides 3rd Edition special offer

The Fire & Safety Division is offering a limited number of Study Guides for Essentials 3rd Edition for \$15.00 plus GST. Price includes shipping & handling. This a first-come-first-served offer.

### Second Edition of "Risk Management for the Fire Service," now available

Due to popular demand, *Risk Management for the Fire Service* has been updated, reprinted and is now available at \$25.00 per copy. For additional information and to order, please contact Pat Carnegie-Dunlop at (604)528-5670.

### Discount change

Effective January 1, 2000 the Training Officer's discount for member departments will be cut back to 10%. The discount applies to all IFSTA training materials other than videos. The current 15% will be available till December 31, 1999. Please allow 4-5 weeks for delivery.

To order Edukits or IFSTA training material please call Pat Carnegie-Dunlop, (604) 528-5670 or fax (604) 528-5660 or email: pcarnegie-dunlop@jibc.bc.ca.



## Incident Safety Officer (FS304)

Two-2 day workshops are being offered by the Fire and Safety Division in cooperation with NFPA on NFPA 1521, Incident Safety Officer. The instructor for these two workshops is Stephen Foley, Senior Fire Protection Specialist from the National Fire Protection Association in Quincy, Mass.

### Dates and locations

1. September 25 & 26, 1999 (Saturday and Sunday)  
Justice Institute of BC, New Westminster Campus  
Room C-230, 0830-1630 hrs
2. September 27 & 28, 1999 (Monday and Tuesday)  
BC Hydro Main Auditorium (adjacent to Edmonds Skytrain Station)  
6911 Southpoint Drive, Burnaby 0830-1630 hrs

- Cost: \$295.00 per student
- Class size is restricted to 40 students per workshop
- An optional exam is available that can result in a Certificate of Achievement
- A list of preferred accommodation is available upon request
- To register call JIBC Registration Centre, 528-5590, Monday-Friday, 8:30-4:30.

LAST MINUTE  
REMINDER

## Shipboard Fire Fighting for Land Based Fire Fighters



With the attention generated by incidents involving structural fire fighters being called upon to attend fires on ships and watercraft of all descriptions, there are many inquiries being made regarding this type of training.

The Fire and Safety Division offers a course to land-based fire fighters that provides participants with the basic knowledge and skills to act as team members in responding to vessel fires. Participants will be able to demonstrate awareness of the hazards associated with the marine environment and shipboard fire fighting. The course is presented in 3 modules: marine environment, organization, and terminology; strategies and tactics (including case studies) and vessel stability; and securing the incident unified command response. This course is based on NFPA Guide 1405.

This course is of interest to fire department and industrial fire brigade members. Pre-requisites are fire fighter and/or fire brigade training and the endorsement or recommendation of the fire chief or superior officer. The cost is \$725.00 for 5 days. The course is available at the Maple Ridge Campus or other locations that can be arranged. For additional information contact the Maple Ridge Campus at (604)462-1000



Professionals who want to take the program must have successfully completed Hazardous Materials Operations level training before signing up.

#### Here's a snapshot of what the week-long program looks like:

- Monday: 8:00 am - 5:00 pm. Focus: tank car anatomy – introduces the student to all different types of tank cars, valves and the problems you can encounter.
- Tuesday: 8:00 am - 5:00 pm. Focus: damage assessment – a systematic approach, and what to look for. Donning Level A with medical vitals before and after.
- Wednesday: 8:00 am - 5:00 pm. Focus: damage assessment – special procedures such as transfers, grounding

and bonding, flaring, capping, leak sealing and valve repairs. The ICS system with team organization including roles, responsibilities, check sheet, required to develop a site safety plan.

- Thursday: 8:00 am - 10:00 pm. Scenarios – two full scenarios, one of which occurs at night.
- Friday: 8:00 am - 2:00 pm. Third response scenario and final test.

The next Rail Tank Car Specialist program runs September 20 - 24th. Additional courses scheduled: October 4 - 8, November 1 - 5, November 29 - December 3, January 17 - 21, 2000 and February 7 - 11, 2000.

For more information on the program call the JI's Fire and Safety Division at 604-462-1000. Information is also available on the JI website [www.jibc.bc.ca](http://www.jibc.bc.ca).

## Industry helps cause derailment

It's one of a kind in Canada. A train derailment for training emergency personnel to respond to derailments involving hazardous materials. This unique training site is located in Maple Ridge, BC, at the Fire and Safety Training Centre of the Justice Institute of BC.

"We couldn't have created this derailment without help from industry," says John Vokes, Director of the JI's Fire and Safety Division. "Their support was fabulous, they donated the rail cars, transported them here and provided the crew and equipment to install the cars."

Getting the cars to the site was no easy task. The Fire and Safety Training Centre is located on the side of a mountain on the outer edges of the community of Maple Ridge. Through the combined efforts of BC Rail, CN Rail, CP Rail, Procor and FMC, the JI was able to create the derailment site. Despite its remote location, the area's mild climate allows the site to be used for training year round.

The derailment covers 450 metres and includes 11 cars, low and high pressure tank cars and intermodal containers (some of which are worth \$50,000 in scrap metal alone). Its location simulates an actual rail line with steep grades and tank cars that are difficult to access.

The derailment is the training ground for the JI's new Rail Tank Car Specialist program. The site will also be used for the institute's NFPA 472 Hazmat courses and for custom training for clients.

For information of the derailment training site or programs offered by the JI's Fire and Safety Division, call (604) 462-1000 [www.jibc.bc.ca](http://www.jibc.bc.ca).

## First Annual Okanagan Training Weekend

September 24th, 25th, 26th, 1999



The Westside Fire Department will be hosting the first annual training weekend for local fire departments.

- Training provided by the Fire & Safety Division of the JIBC.
- Training subjects include Strategies and Tactics, Pumps and Pumping, Building Construction, Auto Extrication, Haz-mat Awareness and Critical Incident Stress Management.
- Contact Dean Colthorp at (250) 768-5616 Ext. 2 for more information and costs

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topography of many parts of British Columbia thereby adding to the realism of the scenario-based training.

The focal point of the new training area is the eleven rail car derailment. This adds realism to training as cars are plumbed to simulate an action of the product that is typically carried on each car. Simulations and special effects are done through the use of propane, artificial smoke and pyrotechnics, each with the degree of realism that will provide the necessary training experience.

Although the primary training is aimed at industry and rail response personnel, haz-mat emergency response teams will also find this training of value. The development of a prop that includes a major train derailment provides a perfect backdrop for training that includes a multi-agency response to a major event involving hazardous materials.



## Dr. Joseph Cohen Award



Terry Abrams receives award from Dr. Cohen.

## Public education achievement recognized

Captain Terry Abrams of the District of North Vancouver Fire Department was recognized for his contribution to public fire education in British Columbia with the Dr. Joseph H. Cohen Award for Outstanding Contribution in the area of Public Safety. This was presented at the Annual Justice Institute of B.C. Foundation Gala in March of 1999.

Terry joined the District of North Vancouver Fire Department in 1975 and was promoted to Fire Inspector in 1983. As a district inspector he recognized the need for greater public education in the area of fire safety and it was then that he made his commitment to making this happen. Since that time, he has developed or played a major role in creating public fire education programs such as the Doo-Bee Program, the Burn Awareness Week kit and the Juvenile Firesetter Intervention Awareness program. Terry has participated in the training and delivery of the National Fire Protection Association (NFPA) program, Learn Not To Burn to school children.

Terry has been a director of the BC Professional Fire Fighter's Burn Fund and has been a coordinator and counselor of the Summer Camp for Burn Injured Children. He is an adjunct instructor for the JIBC, Fire and Safety Division in the area of public fire safety education and safety.

Our congratulations to Terry on receiving this prestigious award. Keep up the good work.

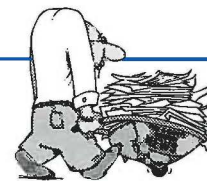
## People News

**Mark Smitton**, a technician (Scientific Technical Officer) at the Maple Ridge Campus has left that position to take the full-time position of Assistant Chief – Community Safety Officer with the Maple Ridge Fire Department. Mark had been a technician first with Pacific Marine Training Institute then by the Justice Institute for nine years.

**Kevin Perkin**, also a technician (Scientific Technical Officer) at the Maple Ridge Campus has been successful in his quest to become a career fire fighter with the Port Coquitlam Fire Department. Kevin was a technician at the Maple Ridge Campus for five years.

Both Mark and Kevin have been focused on careers in fire departments and are delighted to see their employment goals become reality. We wish both of them every success in their new endeavor.

**Blake Smith** has joined the team at the Maple Ridge Campus and replaces Mark Smitton. Blake has been a part-time employee at Maple Ridge for approximately two years. Welcome to the Fire and Safety Division.



**Contributions  
to the newsletter are  
welcome.**

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