

S-590 Operational Fire Behaviour Analyst Skills and Calculations CFFIC National Course

Overview/Description

As part of the national fire behaviour specialist training series of courses, S-590 provides training to develop skills and abilities required by an operational Fire Behaviour Analyst (FBAN) through hands-on interactive exercises in-person at the Hinton Training Centre. This course highlights the importance of clear, concise communication of critical fire behaviour information to appropriate resources.

Students will be able to analyze and forecast the impact of fuel, weather and topographic characteristics and correctly apply the Canadian Forest Fire Danger Rating System (CFFDRS) to determine and predict complex fire behaviour, the impacts on firefighter and public safety and assist in developing operational strategies and tactics.

Students will be able to:

- Produce clear and concise fire behaviour forecasts, fire growth projection maps and fire behaviour worksheets for a given situation
- Describe human influences on fire behaviour forecasting
- Identify and account for fire behaviour environmental conditions that may not match model assumptions
- Identify assumptions used in short-term and longer-term fire growth projections
- Discuss the assumptions and limitations of using an ellipse to describe fire shape
- Describe the process for verification and adjustment of fire behaviour predictions
- Apply the lessons learned from several high profile wildland fire entrapment situations to the role of FBAN
- Describe how an FBAN forecasts and communicates diurnal fire intensity outputs
- Communicate fire behaviour predictions in both oral and written form
- Compare and contrast fire behaviour briefings and their potential audiences
- Discuss criteria related to fire behaviour warnings and advisories

Target Audience

Personnel desiring to be qualified as an FBAN in wildfire management operations and:

- Planning Section Chief, Situation Unit Leader, Incident Commander, supervisory roles in the Operations section, Ignition Specialist;
- Those responsible for coordinating wildfire response at a provincial or area level;
- Academic students interested in studying wildfire behaviour and its impacts on fire operations;
- and Modelling Specialists or other computer Data Analysts.

Prerequisites

Candidates must have attended and passed the S-589 Specialized Fire Behaviour Theory & Applications course within the past 5 years. Eligible candidates must complete a pre-course assignment.

This course is not available to the general public. Preference is given to wildfire agency staff.

Registration

Forestry Division employees register through your local training contact.

Individuals outside of Forestry Division, please contact your local or provincial training contact.

Non-wildfire agency staff need sponsorship or referral from a wildfire agency and would register through the appropriate provincial training contact.