S-490 Advanced Fire Behavior Calculations

Overview: This 44 hour course is the fourth course in a series designed to develop fire behavior and prediction knowledge and skills. This course prepares students for Advanced Fire Behavior Interpretation, S-590, which addresses the skills for Fire Behavior Analyst and Long Term Fire Analyst positions. It also prepares students desiring to become qualified as a Prescribed Fire Burn Boss Type 1 (RXB1). The course material is presented in an instructor-led approach to learning. Examples and exercises are divided between wildfire and prescribed fire applications. Students learn to project fire perimeter growth based on weather predictions, and knowledge of fuels and topography, using a variety of scenarios.

Objectives:
- Collect and evaluate fire behavior prediction model inputs and compute wildland fire behavior using advanced techniques.
- Use fire behavior models to predict fire growth in varied terrain.
- Define likely conditions for extreme fire behavior and potential impacts on safety.
- Interpret, communicate, apply, and document wildland fire behavior and weather information.

Prerequisites: Successful completion of Introduction to S-390, Wildland Fire Behavior Calculations. Proficiency using non-automated fire behavior processors:
- Nomograms

Proficiency using the latest computerized Fire Modeling System is required.

Student Pre-course CD. NOTE: The links in the pre-course review materials Part 4—Manual Methods of Fire Behavior Prediction and Part 5—Use of BehavePlus have been updated. The materials can now be found at https://www.frames.gov/partner-sites/behaveplus/home/. The documents found on the S-490 Student CD in the Pre-Course Study Materials folder have not been updated.

Location: Withlacoochee Training Center

Course Fees: $150 tuition, $30.00 per night lodging, $25.00 per 3/day meals

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Invoicing: Payment of invoices by check or online will initiate the release and delivery of your course certification.