

Washington Institute (WI) is offering two Fuels Management courses created for the Pacific Northwest geographic area. These courses are "**Quantification of Wildland Fire and Fuels Analysis Inputs**" and "**Fuels Analysis Techniques.**" **One Semester college credit** is available through the University of Idaho (UI) for these courses and can be purchased during class for \$60.00.

The target audience for the **Quantification of Wildland Fire and Fuels Analysis Inputs** course is GS-3, 4, 5 with little or no technical fuels education. The course will teach students how to collect and summarize fuels information. It is expected that the information could then be incorporated into a NEPA oriented fire/fuels analysis.

This course teaches students how to collect and summarize wildland fuels profile data. The data is reduced in a way as to be incorporated into a NEPA oriented, fire/fuels, project level analysis. Fuel profile data collected includes dead downed woody, brush and canopy materials.

The competencies for the Quantification of Wildland Fire and Fuels Analysis Inputs are:

1. Conduct a dead downed woody fuel inventory using the Planar Intersect method of data collection.
2. Conduct a fuel inventory using the Photo Series method.
3. Collect stand characteristics needed for fire behavior and fire effects assessment.
4. Calculate and quantify wildland fuel amounts and character.
5. Describe fuel beds in three dimensions.
6. Design a sampling method for conduction a fuel inventory.
7. Provide descriptive statistics for a dead downed woody fuel inventory.
8. Utilize the DDWoodyPC program in FMAPlus to reduce fuel inventory data and view and search Photo Series.
9. Utilize the PSExplorer program to search Photo Series for defined fuelbed characteristics.
10. Identify a representative FBPS (1982) and Standard (2005) fuel model given a fuelbed profile.

The target audience for the **Fuels Analysis Techniques** course includes those who have successfully completed the Quantification course. In addition, GS-5 through GS-9 fire/fuels employees already possessing field collection and summarization skills and other resource personnel involved with fire/fuels planning will benefit. This course will instruct methods of fuels analysis as required by NEPA and the National Fire Plan.

This course teaches students to analyze project level fire/fuels situations. Attendees will utilize existing fuels conditions and predict created fuels based on a projected activity. Students will then evaluate, under specified weather conditions, expected fire behavior and fire effects. They will conduct such an analysis under the NEPA model for producing a project level planning document.

The competencies for the Fuels Analysis Techniques class are:

1. Identify how fire acts as a disturbance and interacts with basic ecological process and stand development.
2. Predict the amount and character of debris generated from a management activity or natural event.

3. Ascertain percentile weather for use in fuels analysis using FireFamilyPlus and historic fire record data.
4. Determine fire behavior characteristics based on existing and predicted fuels.
5. Identify changes to fuel profiles based on fuel treatment methods.
6. Determine the likelihood of crown fire initiation and propagation.
7. Determine first order fire effects associated with a fuel and fire behavior condition.
8. Identify the basic elements of, and essential points at which fuel and fire management information is used in, NEPA analysis.
9. Provide quantified values for the essential points of a NEPA-based project level fire/fuels analysis.

All courses will be held at the Eagle-Crest Resort, in Redmond, Oregon. The Central Oregon location will provide access to both forest and grass/brush vegetation types. **The room rate is \$66.00/day, for reservations call: 1-800-682-4786.** When making a reservation please indicate that you are with the Washington Institute classes. There is a block of rooms set aside. There is no obligation to stay at the Eagle-Crest Resort. Many other lodging facilities are located in the Redmond area. Search for "Redmond Oregon Lodging" on the internet for alternatives.

The primary instructor for both courses is Art Benefiel. Art has had significant experience teaching fire and fuels classes for Washington Institute. He is currently a Professor of Forestry and Geographic Information Systems at Central Oregon Community College, where he teaches introductory to advanced GIS courses. Dr. Stewart Pickford (University of Washington) will also serve as contributor and instructor for the classes.