



Preparation of Fine Particulate Emission Inventories

Student Manual

APTI Course 419B

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Course Description

APTI 419B: *Preparation of Fine Particulate Emission Inventories* is a two-day, resident instructional course designed to present an advanced view of all major, practical aspects of developing an emission inventory for fine particulate matter. The course is intended primarily for employees that have a working knowledge of emission inventory terminology and techniques. The course focuses on the principal stationary nonpoint area and nonroad mobile source categories emitting PM fine particles. For select categories, the course provides a brief summary of how emissions are estimated for EPA's National Emissions Inventory (NEI), and how state/local/tribal agencies can improve upon those estimates. Case studies are used to provide real-world examples of how state or local agencies collected their own data to prepare inventories that are improvement to the NEI methods. The lessons include information on an overview of fine PM, an overview of the NEI, onroad mobile inventory development, onroad mobile inventory development, point source inventory development, area sources, fugitive dust area sources, combustion area sources, and other related topics.

The course is taught at an instructional level equivalent to that of an advanced, undergraduate university course. The Air Pollution Training Institute curriculum recommends APTI 419B: *Preparation of Fine Particulate Emission Inventories* as an advanced course for all areas of study. The student should have minimally completed a college-level education and APTI Course SI:419A – *Introduction to Emission Inventories* or have a minimum of six months of applicable work experience.

How to Use This Manual

This manual is to be used during classroom instruction and telecourse sessions. The workbook contains instructional objectives and materials for each of the nine subject areas.

Each chapter provides a lesson goal, instructional objectives, subject narrative, and reference materials that may guide your study. A separate Student Workbook also contains a reproduction of lecture slides intended to guide your notetaking. The slides are presented to generally follow the course outline; however, the instructor may on occasion vary the order of presentation or present material not included in the workbook. Each student, therefore, should take thorough notes of the lecture content throughout the course, but not rely solely upon graphic reproductions for the course content.

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