CEQA Air Quality and Greenhouse Gas Analyses

1.0 Unit Elective Course
Fall 2019

The California Environmental Quality Act (CEQA) requires planned land use projects to report the potential environmental impacts of project construction and operation, including emissions of greenhouse gases (GHGs), pollutants, and toxic air contaminants from both mobile and stationary sources, and mitigate those impacts where possible. Adherence to CEQA guidelines ensures that nearby communities and schools are not burdened by excessive air pollution, noise, or other environmental impacts.

In recent years, the guidelines for CEQA reporting have become more complex than ever. This course is designed to provide an overview of the CEQA statutes and framework, reporting requirements and quantification methodologies for regulated emissions, and analysis of impact significance and potential mitigation measures.

Format: Online course, 1 unit (9 to 10 hours of instruction, including lectures, online forum, and quizzes)

Instructor Information: Judy B. Yorke, B.S., P.E., C.P.P.; E-mail: JYorke@YorkeEngr.com
with guest lectures from experts at Yorke Engineering, LLC

Judy Yorke, B.S., P.E., C.P.P., President of Yorke Engineering, LLC, has extensive air emissions regulatory compliance experience with industry and government. Ms. Yorke is a recognized expert in federal, state, and local air pollution control regulations. She has taught the Air Quality Permitting and Compliance course at the University of California, Irvine Division of Continuing Education for 25 years, is a regular speaker at air quality seminars, and is a member of the SCAQMD Permit Streamlining Task Force. She has performed hundreds of air quality projects in the South Coast requiring auditing, permitting, emission quantification and inventories, as well as compliance management/planning.

Topics Covered

Statutory Requirements
- Framework, Background, and Recent Changes
- What is a Lead Agency?
- Air District Guidance Documents

Emissions Quantification Methodologies
- Estimating Emissions For:
  - Greenhouse Gases
  - Criteria Pollutants
  - Toxic Air Contaminants
- Mass Emissions and Significance Thresholds
- CalEEMod®, EMFAC, and Other Models

Essential Reporting Elements
- Mitigated Negative Declaration (MND) or Environmental Impact Report (EIR)
- Air Quality and GHG Reporting Sections
- When to Include Additional Analyses

Impact Analysis and Mitigation
- Significance of Impacts
- Health Risk Assessments and Modeling
- Assessing Potential Mitigation Measures

Class Meeting Information:
Length: 3 weeks
Dates: October 28–November 15, 2019
Location: UCI Division of Continuing Education (Online)