



REHIS Northern Centre Smoke Nuisance Course

Delivered by—Phil Cleaver, Chris Geeves

9th & 10th November 2022 (9/11 - 9am—1pm, 10/11—1pm-5pm)

Virtually via Microsoft Teams.

The Northern Centre, in conjunction with Chimney Skills Training are delighted to be able to offer a virtual smoke nuisance course which aims to provide Environmental Health Officers and those working within the field of Environmental Protection with further guidance and information to assist with the investigation of smoke nuisance complaints.

The course covers the following topics:

What is smoke? a by-product of combustion, Dark Smoke- complete and incomplete combustion

What is a smoke nuisance? Statutory smoke nuisance-exemptions, Smoke control zones, How to measure it (Ringelmann Charts) , and how to determine fuel abuse and abate nuisance complaints.

Combustion as a chemical reaction. Fuel compositions, endothermic and exothermic chemical reactions. Pyramid of fire, Heat as a product and catalyst, Ignition temperatures-dependant on fuel, surface area, load, moisture content, combustion air. Pyrolysis and gasification. Life cycle of combustion -endothermic, ignition, exothermic, char phase and the role of heat.

Incomplete combustion: Fuel rich, Fuel lean, Combustion takes place in air not Oxygen - primary pollutants, moisture in fuels, mixing fuels and burning properties.

Installation—determine correctly installed appliances, poorly designed and installed chimney and flue systems and understand building topography and the impacts within urban areas.

Principles of flues and chimneys: How a chimney works-stack effect- convective heat transfer and forced convection , the house as a competing pressure system, building air requirements-ventilation , chimney pressures over burn cycle, meteorological and topographical issues- turbulence, .

Main legislation, codes of practice, building standards, and BS/EN standards, relating to the design and installation of flues, inc. fire, safety, and environment

The course will be delivered via Microsoft teams and will utilise 'breakout rooms' to allow for case studies to be discussed. There will be an opportunity for those who complete the course to sit the CITB qualification.

For further information, please contact Catherine Busson—

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Price : £150 members / £225 non-members