

**Supplementary Table 1: Job groups with known hazard of COPD, silica or asbestos excluded for weighting analysis**

	<b>Job group</b>
<b>Excluded jobs with known hazard of COPD</b>	Managers in Transport, Mining and Energy Industries Glass and ceramic workers combined Coal miners combined Moulders, Core Makers, Die Casters Electroplaters combined Other metal manufacturers combined
<b>Excluded jobs with known hazard from silica</b>	Chemical workers combined Glass and ceramic workers combined Coal miners combined Moulders, Core Makers, Die Casters Other metal manufacturers combined Bricklayers, Masons combined Mine (excluding coal) & Quarry Workers
<b>Excluded jobs with known hazard from asbestos</b>	Vocational Trainers, Social Scientists etc. Chemical Engineers and Scientists Other Professional Engineers Draughtspersons Laboratory Technicians Other Technicians Production and maintenance managers Managers in Construction Fire Service Personnel Chemical workers combined Upholsterers Carpenters & Joiners Cabinet makers combined Smiths & Forge Workers Metal working machine operatives combined Production fitters Electricians electrical maintenance fitters combined Electrical engineers (not professional) combined Plumbers, Heating & Ventilating Engineers & Related Trades Sheet Metal Workers Metal Plate Workers, Shipwrights, Riveters Steel Erectors Scaffolders, Riggers combined Welding Trades Coach and vehicle body builders and repairers combined Other construction workers combined Dockers goods porters and slingers combined Electrical, Energy, Boiler Operatives & Attendants combined