



Hazardous Area Basic Principles

Programme for 3-day Training Course

Day 1

Delegates are requested to arrive for registration at 08.45am and the course will commence at 09.00am.

09.00 – 09.05	General Introductions & Safety Information (5 min)
09.05 – 09.10	Introduction and course objectives (5 min)
09.10 – 09.15	IECEx Scheme Overview & Competence (5 min)
09.15 – 10.00	Safety of Personnel in Hazardous Areas (45 min)
10.00 – 10.15	Introducing the Equipment Inspection Exercise (15 min)
10.15 – 10.30	Break (15 min)
10.30 – 12.00	Legislation, an overview (90 min)
12.00 – 12.45	Properties of Flammable Materials (45 min)
12.45 – 13.30	Lunch (45 min)
13.30 – 13.45	Sources of Ignition (15 min)
13.45 – 14.15	Area Classification Overview (30 min)
14.15 – 14.45	Grouping, Temperature Classification & Ingress Protection (30 min)
14.45 – 15.00	Break (15 min)
15.00 – 15.45	Equipment Protection, an overview (45 min)
15.45 – 15.50	Combined Protection (5 min)
15.50 – 16.45	Equipment Marking (55 min)
16.45 – 17.15	Equipment Inspection exercise, session 1 (30 min)
17.15	End of Day 1

Please note that all times are approximate.



CSA Group Testing UK Ltd
Unit 6, Hawarden Business Park
Deeside, CH5 3US

+44 (0)1244 670900
uktraining@csagroup.org
www.csagroupuk.org



Day 2

The course will resume on day 2 at 09.00 and delegates are requested to arrive 15 minutes prior to commencement unless otherwise informed by the lecturer.

09.00 – 09.30	Day 1 review and Question & Answer Session (30 min)
09.30 – 10.00	Equipment Selection, Categories & EPL's (30 min)
10.00 – 10.15	Break (15 min)
10.15 – 11.00	Flameproof Protection 'Ex d' (45 min)
11.00 – 11.45	Increased Safety 'Ex e' (45 min)
11.45 – 12.30	Equipment Inspection Exercise, session 2 (45 min)
12.30 – 13.15	Lunch (45 min)
13.15 – 14.15	Intrinsic Safety Protection 'Ex i' (60 min)
14.15 – 14.45	Pressurised Protection 'Ex p' (30 min)
14.45 – 14.50	Encapsulation Protection 'Ex m' (5 min)
14.50 – 15.20	Non-incendive Protection Type N/n 'Ex n' (30 min)
15.20 – 15.35	Break (15 min)
15.35 – 15.45	Other Types of Protection (10 min)
15.45 – 16.15	Dust Protection 'Ex t' (30 min)
16.15 – 17.15	Equipment Inspection Exercise, session 3 (60 min)
17.15	End of Day 2

Please note that all times are approximate.



CSA Group Testing UK Ltd
Unit 6, Hawarden Business Park
Deeside, CH5 3US

+44 (0)1244 670900
uktraining@csagroup.org
www.csagroupuk.org



Day 3

The course will resume on day 3 at 09.00 and delegates are requested to arrive 15 minutes prior to commencement unless otherwise informed by the lecturer.

09.00 – 09.30	Day 2 review and Question & Answer Session (30 min)
09.30 – 09.40	Non-electrical Protection 'Ex c', Ex f' (10 min)
09.40 – 10.00	Cables, Conduits & Wiring Systems (20 min)
10.00 – 10.15	Break (15 min)
10.15 – 10.45	Cable Glanding (30 min)
10.45 – 11.30	Installation & Initial Inspection (45 min)
11.30 – 12.15	Periodic Inspection & Maintenance (30 min)
12.15 – 12.30	Day 3 review and Question & Answer Session (15 min)
12.30 – 13.15	Lunch (45 min)
13.15 – 14.15	Equipment Inspection Exercise, Session 4 (60 min)
14.15 – 15.00	Review of Equipment Inspection exercise (45 min)
15.00	End of Course

Please note that all times are approximate.



CSA Group Testing UK Ltd
Unit 6, Hawarden Business Park
Deeside, CH5 3US

+44 (0)1244 670900
uktraining@csagroup.org
www.csagroupuk.org