



MARECHAL PEB SEMINAR TIMETABLE

WORKING
IN HAZARDOUS
ENVIRONMENTS

AGENDA

TIME	ACTIVITIES	SPEAKER
0900 - 0930	Registration with light breakfast	
0930 - 0945	Welcome & speaker introduction <ul style="list-style-type: none">- Handing over to speaker	William Chew
0945 - 1030	Conditions for Explosion / Characteristics of flammable substances <ul style="list-style-type: none">- Definitions of explosion - Fire Triangle or Hexagon of the explosion- Knowing gas ignition characteristics (boiling temperature, flash point, self ignition temperature, ...)- Example of Gas & Vapour Explosion- Knowing dust ignition characteristics (temperature, granulometry, ignition temperature cloud, ...)- Example of Dust Explosion	Anne Le Guennec
1030-1045	Tea Break (Light Snacks)	All Participants
1045 - 1130	Hazardous areas classification & interpretation of relevant codes & standards <ul style="list-style-type: none">- IECEx/ATEX Regulations and classification- Class & Division: NEC/UL/CSA- Comparison between Zone & Class/Division classification- Gas & Vapour and Temperature Classification- Dust Classification	Anne Le Guennec
1130 - 1230	Presentation of most common types of protection for equipment <ul style="list-style-type: none">- Flameproof equipment (Ex da, db or dc)- Increased Safety equipment (Ex eb or ec)- Protection by enclosure for dust (Ex ta, tb or tc)- Combined types of protection: Example Ex db eb- Quick view of other types of protection	Anne Le Guennec
1230 - 1330	Lunch	All Participants



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1330 - 1400	Product certification & Explanation of Equipment marking with product samples <ul style="list-style-type: none">- DXN, DX, SPeX (plugs and socket-outlet)- G2X, EVFL (lighting fixtures)- EJB, GUB (flameproof enclosures)	Anne Le Guennec
1400 - 1445	Installation Recommendation (EN/IEC 60079-14) <ul style="list-style-type: none">- General requirements - equipment selection- External influences- Protection against dangerous spark & Equalization of potential sparks- Additional protection requirements for 'Ex d' & 'Ex e' enclosures: cable, cable glands,...- Conversion of Zone 1 to Zone 2 & Zone 2 to safe area classification (with examples)	Anne Le Guennec
1445 - 1530	Electrical inspections & maintenance (EN/IEC 60079-17) <ul style="list-style-type: none">- Frequency of inspection- Degree of inspection- Specific inspection requirements for Ex d & Ex e equipment- Inspection program	Anne Le Guennec
1530-1545	Tea break (light snacks)	All Participants
1545-1630	Best practice discussion with product example <ul style="list-style-type: none">- DECONTACTORTM (safety advantages of butt to butt contact vs pin & sleeve)- Control stations- Lighting fixture	Anne Le Guennec
1630 - 1730	Q & A	All Participants
1730	End of seminar	