

	<p>Developing Standards to Support IECEx</p> <p>Jim Munro Chairman IEC Committee TC 31 Chairman IECEx Panel Assessors Managing Director, Jim Munro International Compliance Pty Limited</p>

	<p>Scope of Presentation</p> <ul style="list-style-type: none"> ■ TC 31 – Equipment for explosive atmospheres ■ A short background on the standards development process ■ Recent and current developments ■ Developments in ISO
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	<p>Technical Committee TC31</p> <ul style="list-style-type: none"> ■ Equipment for explosive atmospheres - Technical Committee TC31 ■ Secretariat - UK ■ Chairman - Jim Munro
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	<p>About TC 31</p> <ul style="list-style-type: none"> ■ TC 31 does not produce standards especially for the IECEx Scheme ■ Has been in operation much longer – for about 57 years ■ Aim is to produce international standards for the Ex field
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	<p>Technical Committee Scope</p> <ul style="list-style-type: none"> ■ Title and Scope recently changed; scope now: ■ To prepare and maintain international standards relating to equipment for use where there is a hazard due to the possible presence of explosive atmospheres of gases, vapours, mists or combustible dusts.
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	<p>TC 31 Composition</p> <ul style="list-style-type: none"> ■ 3 sub-committees ■ 2 working groups ■ 11 Maintenance teams ■ 32 participating countries, called P-members ■ 12 observer countries
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Standards Development

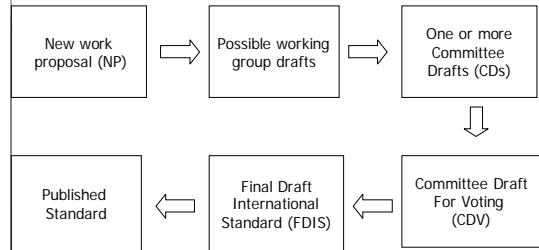
- Technical Committee (TC)
- TC made up of National Committees
- Subcommittees (SCs) to cover part of the work



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The Development Process



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Some Recently Issued Standards

- Standards issued in last 12 months
- Explosive gas atmospheres
 - 60079-15 Type of protection "n"
 - 60079-27 Fieldbus intrinsically safe concept (FISCO)
 - Combustible Dust
 - 61241-17 Selection installation and maintenance

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Some Major Changes Coming

- Equipment protection levels (EPLs)
- Combining gas and dust
- Revision and combination of 60079-12, -20 & -1.1 on data for Ex

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Some Current Projects – Gas and Dust

- 60050-426 Ed 2, IEV - CD
- 60079-0 Ed 5, General – CD
- 60079-19 Ed 2, Repair and Overhaul - CDV

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Some Current Projects - Gas

- 60079-1 Ed 6, Ex d – CD
- 60079-2 Ed 5, Ex p - CD
- 60079-5 Ed 3, Ex q – CD
- 60079-6 Ed 3, Ex o - CD
- 60079-7, Ex e – CDV
- 60079-11 Ed 5, intrinsic safety (IS)– CDV

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	<h2>Some Current Projects – Gas ctd</h2>
	<ul style="list-style-type: none"> ■ 60079-26 Ed2, Zone 0 - CDV ■ 60079-29-1 & 2 (previously 61779-1 to 6), gas detectors – CD ■ New 60079-28, optical radiation – CDV ■ 62086-1 & -2 Ed 2, trace heating – CDV ■ 62013-1 & -2, caplights – FDIS
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	<h2>Some Current Projects - Dust</h2>
	<ul style="list-style-type: none"> ■ New 61241-11, IS for dust – FDIS ■ New 61241-17, insp & main for dust – FDIS
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	<h2>Current Developments in ISO</h2>
	<ul style="list-style-type: none"> ■ Gas detectors for hydrogen - new work item proposal (NWIP) hydrogen detectors approved by ISO/TC 197 ■ Non-electrical – 31/359/INF – ISO/TS/P 200 – proposed formation of ISO Committee for Ex
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	<h2>Conclusion</h2>
	<ul style="list-style-type: none"> ■ With the advent and increasing acceptance of IECEx Scheme international standards in the Ex field are assuming critical importance.
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