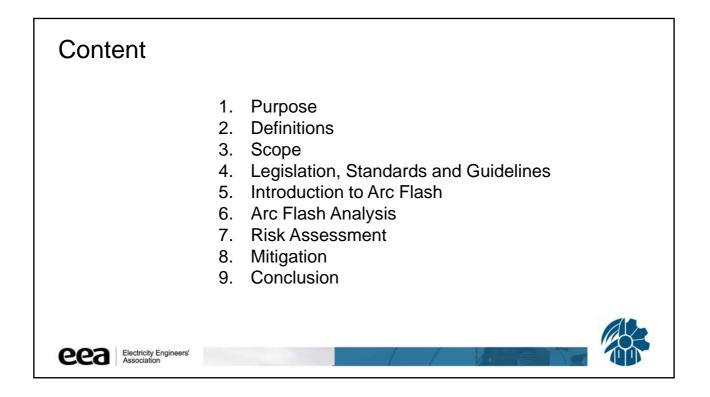
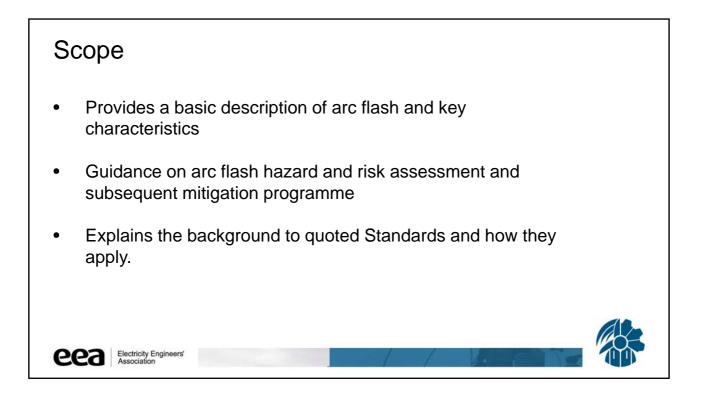
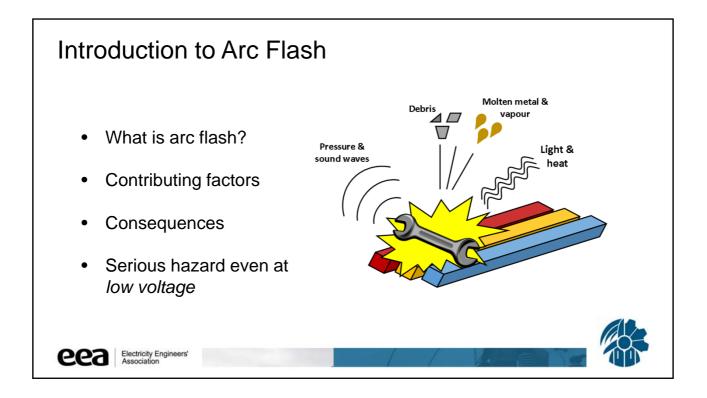


Representative	Organisation
Steve Macdonald (chair)	Orion
Stuart Banks	Mitton ElectroNet
Cosmin Cosma	Westpower
Yanosh Irani	Meridian Energy
Glen Busby	RPS
Brian Ultee	Contact Energy
Graeme Johnson	Aurora
Dave Hammond	PowerCo
Andrew McMahon	Transpower
Ian Stedall	Genesis Energy
Gilbert Zieleman	ABB









Calculation Method	Application	Determine the system modes of operation
IEEE1584	This method calculates incident energy and arc flash boundary for: 208 V to 15 kV; three-phase; 50 Hz to 60	•Determine the <b>bolted fault currents</b>
	Hz; 0.7 kA to 106 kA short-circuit current; and 13 mm to 152 mm conductor gaps.	•Determine the arc fault currents
Ralph Lee	This method calculates incident energy and arc flash boundary for arc in open air; conservative over 600 V and becomes more conservative as voltage increases.	•Find the <b>protective device</b> characteristics and the duration of the arcs
Doughty Neal	This method calculates incident energy for three- phase arc on systems rated 600 V and below; applies to short-circuit currents between 16 kA and 50 kA.	•Document the system voltages and classes of equipment
Dan Doan	This method calculates the incident energy for dc systems rated up to 1000 V dc.	•Select the working distances
Table Method   The table method presented in NFPA 70E uses tables     that are for specific fault currents and specific clearing   times and the tables do not cover all applications or     installations. While these tables are intended to be   conservative for most applications, they may not     enable the user to select adequate protection.   rotection.	B •Determine the incident energy for all equipment	
	conservative for most applications, they may not	9 •Determine the <b>arc flash-protection boundary</b> for all equipment

