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The workshop materials are based on the content of the extremely successful [Cisco](#) ISP/IXP Workshop programme which ran from 1997 until 2011. While the programme is sadly no longer active within Cisco, many industry friends and volunteers still use and develop the materials for use in workshops taking place in the Network Operations Group fora and other gatherings around the world.

If you like the materials, and want to make derivative works, Philip is happy for you to do that. Just please acknowledge Philip, Cisco, and the [Network Startup Resource Center](#), without whom this collection of training materials would simply not be available.

If you have any suggestions for improvements, or any contributions you'd like to make to the materials, these would be most welcome, with full acknowledgements, of course.

Category	Presentation	Notes
Routing	<a href="#">Internet Introduction</a>	Introductory slideset
	<a href="#">Routing Introduction</a>	How routing works
	<a href="#">OSPF Introduction</a>	25 slide primer on OSPF
	<a href="#">OSPF for ISPs</a>	A lot more detail about OSPF
	<a href="#">OSPF in detail</a>	Out dated now
	<a href="#">ISIS Introduction</a>	25 slide primer on IS-IS
	<a href="#">ISIS for ISPs</a>	A lot more detail about IS-IS
	<a href="#">ISIS in detail</a>	Out date now
	<a href="#">Comparing ISIS with OSPF</a>	Valuable comparison between the two protocols
	<a href="#">Migration from OSPF to ISIS</a>	The simple steps to move from one to the other
BGP	<a href="#">BGP Introduction</a>	
	<a href="#">Scaling BGP</a>	
	<a href="#">32bit AS Numbers</a>	
	<a href="#">BGP Attributes</a>	
	<a href="#">BGP Policy</a>	
	<a href="#">BGP Best Current Practices</a>	
	<a href="#">Transitioning to BGP</a>	
	<a href="#">Simple Multihoming</a>	
	<a href="#">Advanced Multihoming</a>	
	<a href="#">BGP Communities</a>	

Category	Presentation	Notes
IPv6	<a href="#">IPv6 Introduction</a>	
	<a href="#">The IPv6 Protocol</a>	
	<a href="#">IPv6 Address Planning</a>	
	<a href="#">IPv6 Address Planning Exercise</a>	
	<a href="#">IPv6 Routing</a>	
	<a href="#">Introduction to OSPFv3</a>	
	<a href="#">ISIS for IPv6</a>	
	<a href="#">BGP for IPv6</a>	
	<a href="#">IPv6 Transition Planning</a>	
	<a href="#">Securing IPv6 Transition Mechanisms</a>	
	<a href="#">IPv6 Deployment Study</a>	
	<a href="#">IPv6 Deployment Planning</a>	
	<a href="#">IPv6 Security</a>	
	<a href="#">IPv6 Device Hardening</a>	
	<a href="#">IPv6 Routing Security</a>	
Design	<a href="#">The Value of Peering</a>	
	<a href="#">ISP Network Design</a>	
	<a href="#">ISP Systems Design</a>	
	<a href="#">IXP Design</a>	
	<a href="#">LINX History</a>	
	<a href="#">Network Monitoring</a>	
	<a href="#">Choosing Routers</a>	
Security	<a href="#">Remotely Triggered Blackhole Filtering</a>	
Category	Lab Modules	Notes
IPv4	<a href="#">Workshop Setup</a>	
	<a href="#">Introducing ISIS or Introducing OSPF</a>	
	<a href="#">Introducing iBGP</a>	
	<a href="#">OSPF Areas</a>	
	<a href="#">BGP Route Reflector</a>	
	<a href="#">Cisco IOS Essentials</a>	
	<a href="#">Policy Routing</a>	
	<a href="#">ISIS, iBGP &amp; eBGP or OSPF, iBGP &amp; eBGP</a>	
	<a href="#">ISIS, iBGP &amp; eBGP from scratch</a>	For IXP Workshop
	<a href="#">BGP Route Filtering</a>	
	<a href="#">BGP Policy</a>	
	<a href="#">BGP Best Practices</a>	
	<a href="#">Simple IXP</a>	
	<a href="#">Advanced ISIS &amp; iBGP or Advanced OSPF &amp; iBGP</a>	
	<a href="#">Multi-AS (ISIS) &amp; Advanced IXP or Multi-AS (OSPF) &amp; Advanced IXP</a>	
	<a href="#">Address Plan for single AS lab</a>	
	<a href="#">Address Plan for 4 AS lab</a>	

Category	Lab Modules	Notes
IPv6	<a href="#">Workshop Setup</a>	
	<a href="#">Introducing ISIS or Introducing OSPFv3</a>	
	<a href="#">Introducing iBGP</a>	
	<a href="#">OSPF Areas</a>	
	<a href="#">BGP Route Reflectors</a>	
	<a href="#">Migrating from OSPF to ISIS</a>	
	<a href="#">Migrating Dual Stack OSPF to ISIS</a>	
	<a href="#">ISIS, iBGP &amp; eBGP or OSPFv3, iBGP &amp; eBGP</a>	
	<a href="#">ISIS, iBGP &amp; eBGP from scratch</a>	for IXP Workshop
	<a href="#">BGP Route Filtering</a>	
	<a href="#">BGP Policy</a>	
	<a href="#">IPv6 Access</a>	
	<a href="#">Simple IXP</a>	
	<a href="#">Advanced ISIS &amp; iBGP or Advanced OSPFv3 &amp; iBGP</a>	
	<a href="#">Multi-AS (ISIS) &amp; Advanced IXP or Multi-AS (OSPF) &amp; Advanced IXP</a>	
	<a href="#">Address Plan for single AS Labs</a>	
	<a href="#">Address Plan for 4 AS Labs</a>	

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