

APS1025 INFRASTRUCTURE RESILIENCE PLANNING COURSE – REFERENCE LIST

The planning of infrastructure resilience demands an eclectic knowledge and a clear first principles approach to working. There are no effective processes that can be followed to deliver a comprehensive resilience plan. Even structural resilience cannot be truly delivered simply through following the codes. Knowing when to apply the codes and when to revert to first principles in the planning and design stages is what marks out the engineer from the technician or technologist. Therefore, this course cannot teach you all you need to plan infrastructure resilience, complete either of the projects satisfactorily or even to excel in the end of course exam; the onus is on the student to read into the subject. The lectures and seminars focus on understanding the operating concepts and their application.

One of the inherent complexities in the planning and practice of infrastructure resilience is access to many of the references, which are typically marked “For Official Use” or otherwise classified. In itself, this is not a bar to reading and very effective research can be conducted first by reading up on the principles and concepts and so expanding into the related areas of study that influence their application. Some references are published books, but quite often the most current are web-based and discernment is necessary to filter out what is of quality and what is not. Ultimately, the key to success is a broad knowledge, a sound understanding of the first principles and concepts, and critical thinking.

General Background Reading.

Primary Reference	Hay, A 'Operational Survival: Putting Resilience at the core of Infrastructure Planning' Explora Foundation, London. (Course text available from the UofT Bookstore)
Organisations and organisational theory.	Handy, Charles 'Understanding Organisations' 4 th Edition, Penguin, 1993, London. ISBN 0-14-015603-8
National security policies.	Public Safety Canada's National Strategy http://www.publicsafety.gc.ca/prg/ns/ci/ntnl-eng.aspx Public Safety Canada 'Action Plan for Critical Infrastructure' 2009. ISBN 978-0-662-06347-6 http://www.publicsafety.gc.ca/prg/ns/ci/ct-pln-eng.aspx Public Safety Canada: Critical Infrastructure http://www.publicsafety.gc.ca/prg/ns/ci/index-eng.aspx Public Safety Canada : Emergency Management Framework http://www.publicsafety.gc.ca/prg/em/emfrmwrk-2011-eng.aspx Public Safety Canada : Federal Emergency Response Plan http://www.publicsafety.gc.ca/prg/em/ferp-eng.aspx Public Safety Canada : Enhancing CI Resilience http://www.publicsafety.gc.ca/prg/ns/ci/rsly-eng.aspx Public Safety Canada : CI Protection Resources http://www.publicsafety.gc.ca/prg/ns/ci/rscs-eng.aspx <i>PSC will change the web address when each document is updated. If the link fails, do a search on the PSC website for the document by name.</i> [UK] Cabinet Office 'HMG Security Policy Framework version 4.0 April 2010'

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- Structural Security and Physical Protection guidance.
- Conrath, Edward J et al, 1999 'Structural Design for Physical Security: State of Practice' ASCE. ISBN 0-7844-0457-7
Cormie, Mays & Smith, 2009 'Blast Effects on Buildings' 2nd Edition, London, Thomas Telford. ISBN 978-0-7277-3521-8
Smith & Hetherington, 1994 'Blast and Ballistic Loading of Structures' Oxford, Butterworth-Heinemann. ISBN 0-7506-2024-2
Krauthammer, T, 2008 'Modern Protective Structures' Boca Raton, CRC Press ISBN 0-8247-2526-3
National Institute of Building Sciences – Whole Building Design Guide : Glazing Hazard Mitigation <http://www.wbdg.org/resources/glazingmitigation.php>
PBS.P100 "Facilities Standards for the Public Buildings Service" revised March 2005
UFC 4-010-01 "DoD Minimum Antiterrorism Standards for New and Existing Buildings" 8 October 2003
The Loss Prevention Certification Board 'Red Book' 2006 ISBN 1-903779-19-7
- Polioretics.
- Jean-Denis G G Lepage, 2010 'Vauban and the French Military Under Louis XIV' McFarland ISBN 978-0-7864-4401-4
Griffith, Paddy, 2006 'The Vauban Fortifications of France' Osprey ISBN 978-1-84176-875-5
Neumann, Hartwig, 1988 'Festungsbaukunst und Festungsbautechnik' Bernard & Graefe'. ISBN 3-7637-5839-9
Barros, Salat & Sarmant, 2010 'Vauban; L'intelligence du territoire' Service historique de la Défense'. ISBN 978-2-35039-044-4
- Physical Security
- Honey, Gerard, 2007 'Intruder Alarms' 3rd Edition, Newnes ISBN 0-7506-8167-5
Honey, Gerard, 2005 'Electronic Access Control' Newnes ISBN 0-7506-4473-7
Cieszynski, Joe, 2007 'Closed Circuit Television' 3rd Edition Newnes ISBN 0-7506-8162-4
Bailey, David et al, 2003 'Practical SCADA for Industry' Elsevier ISBN 0-7506-5805-3
Kruegle, Herman, 2007 'CCTV Surveillance' 2nd Edition Elsevier ISBN 978-0-7506-7768-4
- Adversarial philosophies.
- Urbano 'Fighting in the Streets: A Manual of Urban Guerilla Warfare' Barricade Books, 1991, Fort Lee ISBN 0-942637-47-X
Guevara, Che 'Guerrilla Warfare' University of Nebraska Press, 1998, Lincoln. ISBN 0-8032-7075-5
Tse-tung, Mao 'On Guerilla Warfare' University of Illinois Press, 2000, Champaign. ISBN 0-252-06892-0
- Influence.
- Cialdini, Robert B 'Influence: The Psychology of Persuasion' Harper, 2007, New York. ISBN 978-0-06-124189-5

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Current thinking and initiatives.

Flynn, Stephen 'The Edge of Disaster: Rebuilding a Resilient Nation' Random House, 2007. ISBN 978-1400065516

Macaulay, Tyson 'Critical Infrastructure: Understanding Its Component Parts, Vulnerabilities, Operating Risks and Interdependencies' CRC Press, 2008. ISBN 978-1420068350

Lewis, Ted 'Critical Infrastructure Protection in Homeland Security: Defending a Networked Nation' Wiley, 2006. ISBN 978-0471786283

Boin, Arjen et al 'The Politics of Crisis Management: Public Leadership Under Pressure' Cambridge University Press, 2006. ISBN 978-0521607339

Cole, Jennifer & Marzell, Laurence RUSI White Paper 'Combined Effect: A New Approach to Resilience' 2010.

Robinson, Lisa et al 'Valuing Risk of Death from Terrorist Attacks' Journal of Homeland Security and Emergency Management Vol7 No 1 2010.

Dalhousie University's Initiative <http://directory.cip.management.dal.ca/>

University of Toronto <http://politics.utoronto.ca/undergraduate/curriculum/areas-of-study/#compdev>

National Institute of Building Sciences – Whole Building Design Guide : Landscape Architecture http://www.wbdg.org/design/dd_landscapearch.php

US General Services Administration : Security Standards for Leased Buildings <http://www.gsa.gov/portal/content/104482>

National Institute of Building Sciences – Whole Building Design Guide : Security for Building Occupants and Assets http://www.wbdg.org/design/provide_security.php

Australian National Audit Office: Strategic and Operational Management of Assets by Public Sector Entities <http://www.anao.gov.au/director/publications/betterpracguides/currentguides.cfm>

UK Security Service, 2006 'Guide to Producing Operational Requirements for Security Measures'

UK Security Service, 2006 'Personnel Security : Managing the Risk'

Useful references.

Conference Board of Canada <http://www.conferenceboard.ca/>

Wikipedia <http://en.wikipedia.org/wiki/Infrastructure>

Statistics Canada <http://www.statcan.gc.ca/start-debut-eng.html>

The Economist Intelligence Unit <http://www.economist.com/countries/Canada/>

JournalismNet <http://www.peoplesearchpro.com/journalism/>

Cabinet Office UK Resilience: Business Continuity <http://www.cabinetoffice.gov.uk/ukresilience/preparedness/businesscontinuity.aspx>

Public Safety Canada "A Guide to Business Continuity Planning" <http://www.publicsafety.gc.ca/prg/em/gds/bcp-eng.aspx>

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The National Farmers Union NFU <http://www.nfu.ca/>
The Toronto Police Service <http://www.torontopolice.on.ca/>
The Ontario Provincial Police <http://www.opp.ca/ecms/index.php?id=191#Contact>
The Royal Canadian Mounted Police <http://www.rcmp-grc.gc.ca/index-eng.htm>
The City of Toronto <http://www.toronto.ca/>
FEMA <http://www.fema.gov/index.shtm>
The Canadian Disaster Database <http://www.publicsafety.gc.ca/cnt/rsrscs/cndn-dsstr-dtbs/index-eng.aspx>
Ben Benavides OSINT Link Directory http://hts.army.mil/Newsletter/20101220_osint_link_directory.pdf
UK Centre for the Protection of the National Infrastructure Business Continuity Planning Guidance: <http://www.cpni.gov.uk/SecurityPlanning/businessContinuity.aspx>
UK Code of Practice: BCP <http://shop.bsigroup.com/en/ProductDetail/?pid=000000000030157563>
Haimes, Yacov 'Risk Modeling, Assessment, and Management'. Wiley 1998. ISBN0-471-24005-2
ISO 31000 : 2009 Risk Management
http://www.iso.org/iso/iso_catalogue/management_standards/specific_applications/specific-applications_risk.htm
Natural Resources Canada: The Atlas of Canada – Natural Hazards
<http://atlas.nrcan.gc.ca/site/english/maps/environment/naturalhazards>
UK Joint Doctrine Publication 04, 2010 'Understanding'. www.mod.uk/dcdc