



# PICT213

## National Resilience: Crisis Response and Emergency Management

S2 External 2016

*Dept of Policing, Intelligence & Counter-Terrorism*

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#### **Disclaimer**

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## General Information

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Credit points

3

Prerequisites

PICT111

Corequisites

Co-badged status

Unit description

This unit explores the concept of national resilience. It identifies the role of government in preparing for, managing and recovering from a broad range of crises. The unit begins with an overview of risk reduction strategies and introduces the concept of contingency planning. It then examines the various kinds of crisis response capabilities that government develop, including interagency and state-federal coordination procedures, interoperability of equipment and ADF domestic counterterrorism capabilities. The unit then discusses emergency coordination and management in a variety of contexts, including natural disasters, a large-scale mass transit accident, a nuclear, chemical or biological incident, a viral epidemic, a terrorist attack and critical infrastructure failure. Finally, the unit examines planning for national resilience capacity, the ability to recover from unexpected and debilitating crises. These potent threats to national security are outside the threat-centric concept of homeland security and require a more risk-based approach to planning and preparation. This unit complements PICT210, which covers the operational aspects of homeland security, and PICT211, which focuses on government and private sector national security strategy and policy

## Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

## Learning Outcomes

On successful completion of this unit, you will be able to:

Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management

Identify key threats to and vulnerabilities of critical national infrastructure

Apply risk analysis models to a range of crisis response options available to government or business organisations

Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations

Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations

Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## Assessment Tasks

Name	Weighting	Due
<a href="#"><u>Critical Infrastructure</u></a>	20%	14th August
<a href="#"><u>Identifying vulnerabilities</u></a>	40%	18th September
<a href="#"><u>Evaluation of your assignments</u></a>	20%	9th October
<a href="#"><u>Discussion Points x 4</u></a>	20%	See ilearn. Various dates

### Critical Infrastructure

Due: **14th August**

Weighting: **20%**

This assessment task ask you to research what a risk assessment is and how it might be applied to a piece of critical infrastructure. See ilearn for more specific information on how to approach this task

On successful completion you will be able to:

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government

or business organisations

- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations
- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## Identifying vulnerabilities

Due: **18th September**

Weighting: **40%**

This assessment task gives you a choice to focus on a hypothetical flood or bushfire, The assignment ask you explore the issues of local infrastructure and economic loss to the community arising from either crisis. See ilearn for more specific information on how to complete this task.

On successful completion you will be able to:

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations
- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## Evaluation of your assignments

Due: **9th October**

Weighting: **20%**

This is task asks you to reflect upon your previous two assessment feedback and evaluate what you have learnt. What did you do well in and what did you learn that you did not previously know. Again, ilearn will have specific information in it on how to go about this task

On successful completion you will be able to:

- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations
- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## Discussion Points x 4

Due: **See ilearn. Various dates**

Weighting: **20%**

There are 4 discussion points to be covered through out the session. These will be specific questions or issues that you will address. Again, ilearn will have what the specific issues are, due dates etc.

On successful completion you will be able to:

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations
- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## Delivery and Resources

### UNIT REQUIREMENTS AND EXPECTATIONS

- You should spend an average of 12 hours per week on this unit. This includes listening to lectures prior to seminar or tutorial, reading weekly required materials as detailed in iLearn, and preparing assessments.
- Internal students are expected to attend all seminar or tutorial sessions, and external

students are expected to make significant contributions to on-line activities.

- In most cases students are required to attempt and submit all major assessment tasks in order to pass the unit.

## **REQUIRED READINGS**

There is no prescribed text for this unit. The citations for all the required readings for this unit are available to students through this unit iLearn site and at Macquarie University's library site.

Electronic copies of required readings are attached as pdf files and may be accessed through the library also All required reading are attached as pdf files in the relevant week. However, you are expected to read beyond the attached readings using your own initiative. Additionally, useful websites have been included in ilearn to assist you with this. You are expected to read beyond the attached readings using your own initiative.

## **SUBMITTING ASSESSMENT TASKS**

- All text-based assessment tasks are to be submitted, marked and returned electronically. This will only happen through the unit iLearn site.
- Assessment tasks must be submitted as a MS word document by the due date.
- Most assessment tasks will be subject to a 'Turnitin' review as an automatic part of the submission process.
- The granting of extensions of up to one week are at the discretion of the unit convener or nominated delegate such as a tutor. Any requests for extensions must be before the due date for the submission of the assessment task. Extensions beyond one week are subject to the university's Disruptions Policy

## **LATE SUBMISSION OF ASSESSMENT TASKS**

- If an assignment is submitted late, 5% of the available mark will be deducted for each day (including weekends) the paper is late.
- For example, if a paper is worth 20 marks, 1 mark will be deducted from the grade given for each day that it is late (i.e. a student given 15/20 who submitted 4 days late will lose 4 marks = 11/20).
- The same principle applies if an extension is granted and the assignment is submitted later than the amended date.

## **WORD LIMITS FOR ASSESSMENT TASKS**

- Stated word limits include footnotes and footnoted references, but not bibliography, or title page.
- Word limits can generally deviate by 10% either over or under the stated figure.
- If the number of words exceeds the limit by more than 10%, then penalties will apply. These penalties are 5% of the awarded mark for every 100 words over the word limit. If a paper is 300 words over, for instance, it will lose  $3 \times 5\% = 15\%$  of the total mark awarded for the assignment. This percentage is taken off the total mark, i.e. if a paper was graded at a credit (65%) and was 300 words over, it would be reduced by 15 marks to a pass (50%).
- The application of this penalty is at the discretion of the course convener.

## TECHNOLOGY REQUIRED

Computer and internet access are essential for this unit. Basic computer skills and skills in word processing are also a requirement. This unit has an online presence. Login is via: <https://ilearn.mq.edu.au/>. Students are required to have regular access to a computer and the internet. Mobile devices alone are not sufficient.

## REASSESSMENT OF ASSIGNMENTS DURING THE SEMESTER

Macquarie University operates a Grade Appeal Policy in cases where students feel their work was graded inappropriately

## Unit Schedule

Week	Topic
1	Introduction
2	State & National Coordination for Emergency Management Response
3	What is critical infrastructure, risk assessment, crisis co-ordination & planning assessment?
4	Bush fires & the emergency management response
5	Crisis response to the 2011 Japan, Fukushima Nuclear Accident
6	Terrorism & Major Sporting Events. Emergency management response to the 1972 Munich Olympics.
7	Crisis response to the 2012 Christchurch Earthquake, New Zealand.
8	The impact of climate change on the future of emergency management response.

9	Who is in charge of crisis response? Role and responsibilities of combat agencies.
10	2009 Melbourne heatwave & critical Infrastructure implications.
11	Epidemics & pandemics. Response to Ebola outbreak in 2013.
12	Conclusion

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](#). Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy [http://mq.edu.au/policy/docs/academic\\_honesty/policy.html](http://mq.edu.au/policy/docs/academic_honesty/policy.html)

**New Assessment Policy in effect from Session 2 2016** [http://mq.edu.au/policy/docs/assessment/policy\\_2016.html](http://mq.edu.au/policy/docs/assessment/policy_2016.html). For more information visit [http://students.mq.edu.au/events/2016/07/19/new\\_assessment\\_policy\\_in\\_place\\_from\\_session\\_2/](http://students.mq.edu.au/events/2016/07/19/new_assessment_policy_in_place_from_session_2/)

Assessment Policy prior to Session 2 2016 <http://mq.edu.au/policy/docs/assessment/policy.html>

Grading Policy prior to Session 2 2016 <http://mq.edu.au/policy/docs/grading/policy.html>

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Complaint Management Procedure for Students and Members of the Public [http://www.mq.edu.au/policy/docs/complaint\\_management/procedure.html](http://www.mq.edu.au/policy/docs/complaint_management/procedure.html)

Disruption to Studies Policy [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html) *The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.*

In addition, a number of other policies can be found in the [Learning and Teaching Category](#) of Policy Central.

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: [https://students.mq.edu.au/support/student\\_conduct/](https://students.mq.edu.au/support/student_conduct/)

## Results

Results shown in *iLearn*, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit [ask.mq.edu.au](http://ask.mq.edu.au).

## Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>



## Learning Skills

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

## Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

## Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/).

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

## Graduate Capabilities

### Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

### Learning outcomes

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across

public and private organisations and among private sector organisations

- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## **Assessment tasks**

- Critical Infrastructure
- Identifying vulnerabilities
- Evaluation of your assignments
- Discussion Points x 4

## **Capable of Professional and Personal Judgement and Initiative**

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

### **Learning outcomes**

- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations

## **Assessment tasks**

- Critical Infrastructure
- Evaluation of your assignments
- Discussion Points x 4

## **Commitment to Continuous Learning**

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

### **Learning outcomes**

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management

- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations
- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## **Assessment tasks**

- Critical Infrastructure
- Identifying vulnerabilities
- Evaluation of your assignments
- Discussion Points x 4

## **Discipline Specific Knowledge and Skills**

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

## **Learning outcomes**

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations
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## Assessment tasks

- Critical Infrastructure
- Identifying vulnerabilities
- Evaluation of your assignments
- Discussion Points x 4

## Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

## Learning outcomes

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations
- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## Assessment tasks

- Critical Infrastructure
- Identifying vulnerabilities
- Evaluation of your assignments
- Discussion Points x 4

## Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative

in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

## **Learning outcomes**

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations
- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## **Assessment tasks**

- Critical Infrastructure
- Identifying vulnerabilities
- Evaluation of your assignments
- Discussion Points x 4

## **Effective Communication**

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

## **Learning outcomes**

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations

- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## **Assessment tasks**

- Critical Infrastructure
- Identifying vulnerabilities
- Evaluation of your assignments
- Discussion Points x 4

## **Engaged and Ethical Local and Global citizens**

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

## **Learning outcomes**

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Identify key threats to and vulnerabilities of critical national infrastructure
- Apply risk analysis models to a range of crisis response options available to government or business organisations
- Prioritise resilience planning tasks in accordance with business continuity principles appropriate to private and public sector organisations
- Critically evaluate coordination mechanisms between levels of government, across public and private organisations and among private sector organisations

## **Assessment tasks**

- Identifying vulnerabilities
- Evaluation of your assignments
- Discussion Points x 4

## **Socially and Environmentally Active and Responsible**

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

## **Learning outcomes**

- Explain the concept of resilience as it applies to national security, preparedness planning, crisis response and emergency management
- Employ emergency management principles to assess the applicability of coordination methods for different crisis scenarios.

## **Assessment tasks**

- Evaluation of your assignments
- Discussion Points x 4