LAMAR UNIVERSITY

MEMBER THE TEXAS STATE UNIVERSITY SYSTEM™

COMPREHENSIVE EMERGENCY MANAGEMENT PLAN (CEMP)

Publication Date: June 2019

Updated: May 2024

LAMAR UNIVERSITY
MEMBER THE TEXAS STATE UNIVERSITY SYSTEM™

APPROVAL, SIGNATURES, AND IMPLEMENTATION

This Prevention - Mitigation Plan and its supporting contents are hereby approved, supersedes, and rescinds all previous editions, and effective immediately upon the signing of all signature authorities noted below.

Approved: _____ Date: _____

Dr. Jaime Taylor, President
Office of the President
Lamar University

Approved: _____ Date: _____

Mark Robinson
Vice President for Operations & Chief Financial Officer
Lamar University

PLAN ADMINISTRATION and RECORD OF CHANGE

The University's Vice President for Operations & Chief Financial Officer shall be responsible for the Prevention-Mitigation Plan oversight and coordination with the assistance of other stakeholders as required. Once published, the modifications are considered part of the University's Comprehensive Emergency Management Plan for operational purposes.

This plan is promulgated in compliance with Lamar University Policy Emergency Management Policy, MAPP 06.05.01 under the authority of the Vice President for Operations & Chief Financial Officer and maintained by EHS & Risk Management.

Record of Significant Changes

All updates and revisions to this plan will be tracked and recorded in the following table. This process will ensure that the most recent version of the plan is disseminated and implemented by university emergency response personnel.

Date	Description of Change	Page(s) or Section(s)	Version
July 2019	Original		1
July 2021	**Updated**		2

Table of Contents

Section 1

Prevention - Mitigation Introduction

As part of Lamar University's Comprehensive Emergency Management Plan (CEMP), a prevention- mitigation program has been established to decrease the likelihood that an event or crisis will occur and to eliminate or reduce the loss of life and property damage related to an event or crisis. In order to drive prevention and mitigation activities, a Risk Assessment of Lamar University's assets has been developed and maintained.

Section 2

Risk Assessment

2.1 Risk Assessment Components

Risk is the potential for an unwanted outcome resulting from an incident, event, or occurrence as determined by its likelihood and associated consequences. Major components of risk include:

- Assets that could be persons, structures, facilities, information, materials, and/or processes that have value.
- Threats/hazards that could include an occurrence, individual, entity, or action that has or indicates the potential to harm life, information, operations, the environment, and/or property.
- Vulnerabilities that could include physical features or operational attributes that render an asset open to exploitation or susceptible to a given hazard.
- Consequences/impacts for the threats/hazards if they occur for particular assets.

2.2 University Risk Assessment Team

Lamar University's Risk Assessment team is facilitated by EHS & Risk Management and includes campus representatives. The Risk Assessment Team ls responsible for:

- Developing the list of Lamar University assets
- Developing the characterization criteria
- Conducting the assessment
- Maintaining the assessment

2.3 Risk Assessment Methodology

Lamar University's Risk Assessment Methodology includes a five-step process to identify and assess risks and to form priorities, develop courses of action, and inform decision-making. The methodology also includes a model to compute the data gathered during the risk assessment methodology into a quantitative risk score/ranking. The steps of the methodology include:

Likelihood of Occurrence	Value
Extremely Likely (certainty; happens often)	9-10
Highly Likely (happens occasionally)	7-8
Probable (happened before; more than once)	5-6
Possible (happened many years ago)	3-4
Unlikely (no recent memory of this happening)	1-2
Does Not Happen	0

- Identify threats and hazards of concern
- Give the threats and hazards context
- Examine the core capabilities using the threats and hazards
- Set capability targets
- Apply the results

The following ten-point ranking systems will be used in the Risk Assessment Methodology:

Vulnerability Table	Value
Exceptionally grave vulnerability to threat or hazard, where future asset use is impossible	10
Grave vulnerability, where negative effect results in lack of asset use for extended period of time	9
Serious vulnerability, where negative effect results in lack of asset use for limited period of time	8
Serious vulnerability, where negative effect results in lack of asset use for minimal time	7
Moderate to serious vulnerability, where negative effect results in lack of asset use for slight delay	6
Moderate vulnerability, where negative effect results in no delay of asset use	5
Minimal vulnerability, where negative effect results in no delay of asset use	4
Minimal vulnerability or consequences, without negative long-term asset effect	3
Negligible vulnerability or consequences with minimal long-term asset effect	2
Negligible vulnerability or consequences without long-term asset effect	1
No consequences	0

Failure Impact Table	Value
Exceptionally grave impact, where future asset use is impossible	10
Grave impact, where negative effect results in lack of asset use for extended period of time	9
Serious impact, where negative effect results in lack of asset use for limited period of time	8
Serious impact, where negative effect results in lack of asset use for minimal time	7
Moderate to serious impact, where negative effect results in lack of asset use for slight delay	6
Moderate impact, where negative effect results in no delay of asset use	5
Minimal impact, where negative effect results in no delay of asset use	4
Minimal impact or consequences, without negative long-term asset effect	3
Negligible consequences or impact with minimal long-term asset effect	2
Negligible consequences or impact without long-term asset effect	1
No consequences	0

2.3.1 Asset Identification

Lamar University assets include persons, structures, facilities, information, materials, and/or processes that have value. For the Lamar University risk assessment, assets were assessed from a campus-wide categorical perspective. Assets include:

Asset Category	Asset
Persons	Students
	Faculty
	Staff

Asset Category	Asset
Facilities	Administration
	Academic
	Athletic
	Dormitory
	Green Space
	Laboratories
	Parking Areas
	Residential

Asset Category	Asset
Infrastructure	Communications
	Data
	Protection Systems
	Radio
	Telephone

	Grounds
	Information Technology
	Business Data
	Computers
	Utility Distribution Systems
	Chilled Water
	Electrlc
	Natural Gas
	Potable Water
	Sewer
	Steam
	Fuel Storage

2.3.2 Threat/ Hazard Characterization

Threats/ hazards are sources or causes of harm or disruption to Lamar University's assets. Threats and hazards were developed based on the unique characteristics of Lamar's campus. Categories include:

- Natural
- External
- Process

Threat/ Hazard Category	**Threat/ Hazard**
Natural	High Wind (Hurricane, Tornado)
	Winter Storm
	Drought
	Floods

Threat/ Hazard Category	**Threat/ Hazard**
External	Explosion - Nuclear Attack
	Explosion - Radiological
	Explosion - Incendiary Device
	Acts of Terror -Active Shooter/Armed Assault
	Chemical/Biological Event - Biological Outbreak
	Chemical/Biological Event - Food Contamination
	Chemical/Biological Event - Pandemic Influenza

	Chemical/Biological Event- Chemical Attack/Accident
	Chemical/Biological Event-Toxic Industrial Chemicals
	Infrastructure Attack/Failure/Damage- Power Outage/Blackout
	Infrastructure Attack/Failure/Damage - Communications System Disruption
	Infrastructure Attack/Failure/Damage -Water Supply Contamination/Sewer Failure
	Infrastructure Attack/Failure/Damage- Major Fire
	Infrastructure Attack/Failure/Damage- Heating/Air Conditioning Failure
	Infrastructure Attack/Failure/Damage -Ventilation System Failure
	Cyber Attack- Loss of Data or Network Service Disruption
	Cyber Attack- Control Systems Failure
	Economic/Labor/Insurrection- Civil Unrest
	Economic/Labor/Insurrection -Workforce Strike
	Economic/Labor/Insurrection- Demonstration/Riot
	Economic/Labor/Insurrection- Economic Catastrophe (market crash)

Threat/ Hazard Category	**Threat / Hazard**
Process	Poor Process Design
	Failure to Make Timely Decisions
	Failure to Recognize Requirements/Obstacles
	Incompetence

2.3.3 Threat/ Hazard Assessment

The threat/ hazard assessment is the process of identifying or evaluating entities, actions, or occurrences, whether natural or human-caused, that have or indicate the potential to harm life, information, operations, and/or property.

The threat/ hazard evaluation criteria used by the Risk Assessment Team includes:

Likelihood of Occurrence	**Value**
Extremely Likely (certainty; happens often)	9-10
Highly Likely (happens occasionally)	7-8
Probable (happened before; more than once)	5-6
Possible (happened many years ago)	3-4
Unlikely (no recent memory of this happening)	1-2
Does Not Happen	0

2.3.4 Vulnerability Assessment

The vulnerability assessment identifies physical features or operational attributes that

render an entity, asset, system, network, or geographic area susceptible or exposed to hazards.

The vulnerability evaluation criteria used by the Risk Assessment Team includes:

Vulnerability Table	Value
Exceptionally grave vulnerability to threat or hazard, where future asset use is impossible	10
Grave vulnerability, where negative effect results in lack of asset use for extended period of time	9
Serious vulnerability, where negative effect results in lack of asset use for limited period of time	8
Serious vulnerability, where negative effect results in lack of asset use for minimal time	7
Moderate to serious vulnerability, where negative effect results in lack of asset use for slight delay	6
Moderate vulnerability, where negative effect results ln no delay of asset use	s
Minimal vulnerability, where negative effect results in no delay of asset use	4
Minimal vulnerability or consequences, without negative long-term asset effect	3
Negligible vulnerability or consequences with minimal long-term asset effect	2
Negligible vulnerability or consequences without long-term asset effect	1
No consequences	0

2.3.5 Failure Impact

Failure impact includes the process of identifying or evaluating the potential or actual effects of an occurrence and the impacts from the perspectives of life safety, financial, and reputation.

The failure impact criteria used by the Risk Assessment Team includes;

Failure Impact Table	Value
Exceptionally grave impact, where future asset use is impossible	10
Grave impact, where negative effect results in lack of asset use for extended period of time	9
Serious impact, where negative effect results in lack of asset use for limited period of time	8
Serious impact, where negative effect results in lack of asset use for minimal time	7
Moderate to serious impact, where negative effect results in lack of asset use for slight delay	6
Moderate impact, where negative effect results in no delay of asset use	5
Minimal impact, where negative effect results in no delay of asset use	4
Minimal impact or consequences, without negative long-term asset effect	3
Negligible consequences or impact with minimal long-term asset effect	2
Negligible consequences or impact without long-term asset effect	1
No consequences	0

2.3.6 Risk Ranking

Assessment for each asset is the sum of the following categories:

- Threat/ hazards
- Vulnerabilities
- Failure Impact

Risk Ranking is calculated by the below equation:

- Risk= (Threat/ Hazard)+ (Vulnerabilities)+ (Failure Impact)

Risk Ranking can be used throughout the Comprehensive Emergency Management Plan:

- Prevention- Mitigation: developing countermeasures and potential migration measures with quantifiable risk avoidance, control/mitigation, or transference
- Preparedness: Prioritizing assets and threat/ hazards for conducting levels of exercise
- Response: Assessing what gaps the Comprehensive Emergency Management Plan might have in relationship to current capabilities and to plan for the need of new capabilities
- Recovery: Inform the continuity and recovery planning process of potential issues that may challenge those efforts

2.3.7 Countermeasure Assessment

In evaluating the Risk Ranking, the Risk Assessment Team will identify or evaluate the potential or actual effects of actions, measures, or devices that reduce risk where deemed appropriate. Some potential actions that could be taken include:

- Risk Acceptance
- Risk Avoidance
- Risk Control/ Mitigation
- Risk Transference

2.4 Maintenance

At minimum, the Risk Assessment Team should review and maintain Lamar University's Risk Assessment bi-annually. The Risk Assessment can also be reviewed and updated more frequently as the need arises for major changes in assets, threat/hazards, vulnerabilities, or failure impacts. EHS & Risk Management is responsible for administering the Risk Assessment data and facilitating the Risk Assessment Team in its review and maintenance.

Section 3 Prevention

Prevention is the action taken to decrease the likelihood of an event or crisis. The hazards Lamar University seeks to prevent are defined through the risk assessment process. Prevention programs and activities are administered by various campus organizations.

3.1 Prevention Programs

3.1.1 EHS & Risk Management

EHS & Risk Management maintains various prevention programs related to maintaining a safe living, learning, and working environment. Programs include, but are not limited to;

- Fire Safety
- laboratory and Research Safety
- Occupational Safety

3.1.2 Lamar University Police Department (LUPD)

LUPD maintains various prevention programs related to personal safety and security. Programs include, but are not limited to:

- Crime Prevention
- Traffic Safety

3.1.3 Student Health Center

Student Health Center maintains various prevention programs related to personal physical and emotional wellness. Programs include, but are not limited to:

- General Health & Wellness
- Mental Health
- Health Promotions

Section 4 Mitigation

Mitigation is the action taken to eliminate or reduce the loss of life and property damage related to an event or crisis, particularly those that cannot be prevented. Mitigation activities are incorporated into Lamar University risk management, safety, and compliance programs. Activities

are administered by various campus departments responsible for University systems, equipment, and facilities.

4.1 Mitigation Activities

Mitigation activities may be developed in response to actual or potential threats and hazards to Lamar University assets. Consideration for specific mitigation activities should be given to:

- After action reports for actual university incidents
- After action reports from university exercises
- University risk assessments
- Recommendations from EHS & Risk Management
- Benchmarking with peer institutions
- Input from Lamar University Executive Operations Team and Incident Management Team
- Guidance from governmental agencies