



✓ Be Ready

✓ Plan Ahead

✓ Take Action

✓ Follow Up



YOUR CYBERSECURITY CHECKLIST

Technology has transformed the way we all do business for the better. However, to keep your data and business from being at risk, you must ensure your tech is secure and continuously monitored. We're providing this detailed checklist as a reference tool to help you verify that comprehensive cybersecurity and physical security policies are in place throughout your organization.

- Do you have an up-to-date crisis communications plan?
- Does your crisis communications plan identify who should be contacted, how to contact them, contact information, and who initiates the contacting?
- Do you have a PR representative who will communicate to the press and community in an emergency?
- Does your crisis communications plan detail how employees can contact their family members?
- Have you identified recovery time objectives for each system, and tested for achievability?
- Do you regularly test your business continuity, disaster, and crisis communications plans?
- Do you receive alerts if backups are turned off?
- Do you receive alerts when there is a change in backup size or retention status?
- Do you regularly review backup settings to know if anyone has maliciously adjusted them?
- Do you regularly review your cyber insurance policy to be sure it provides the right coverage?

CYBERSECURITY TRAINING

- Do you provide staff training from an IT expert on cybersecurity?
- Do you provide this training on a regular basis?
- Does your staff know how to recognize phishing attempts in emails?
- Does your staff know how to recognize phishing attempts that arrive via text, social media, or phone calls?
- Are your employees trained on reporting phishing emails to the security team?
- Are your employees being taught about using secure passwords?
- Are your employees trained to identify and protect classified data, as well as hard copies of documents and removable media?
- Is your staff trained on secure management of credit card data (PCI standards) and private personal information?

YES NO

COMPLIANCE REVIEW

- Do you regularly review and update your cybersecurity requirements, strategies, plans, and practices?
- Do you conduct regular audits of your security requirements, strategies, plans, and practices?
- Are you testing your backup and disaster recovery plans regularly?
- Do you conduct regular reviews of who in your organization has access to sensitive information and data?
- Do you have an inventory of your authorized devices and software?
- Do you regularly test all your systems for vulnerabilities?
- Are you following the best practices established by the Center for Internet Security (CIS) in their CIS Controls?

YES NO

For each question where you answered “No,” you should implement activities to correct the deficits or vulnerabilities to the security of your data, facility, or personnel. Unless you take action, the ability for your business to thrive/survive will be negatively impacted. Be sure to also follow up and reassess by completing this survey again in six months’ time. After that, we advise that you continue to review these questions on an annual basis.



CYBERSECURITY THREAT/ RISK ASSESSMENT

A cybersecurity threat is a person or a thing that accidentally triggers or intentionally exploits a vulnerability or weakness within your organization. A number of threats may be present within your network or operating environment. Threats can come from natural and environmental elements as well as from people.

Natural Threats:

- Storm/Flood Damage
- Fire
- Lightning Strikes
- Hurricanes/Tornadoes
- Pandemic

Environmental Threats:

- Power Outages
- Chemical Spills
- Pollution

Human Threats:

- Computer Abuse
- Terrorism
- Sabotage
- Vandalism
- Fraud
- Errors/Negligence
- Falsified Data
- Unauthorized Access
- System Tampering
- Civil Unrest

CALCULATE YOUR RISK

“Risk is a combination of the likelihood of an occurrence of a hazardous event or exposure(s) and the severity of injury of ill health that can be caused by the event or exposure(s).” (OHSAS 18001:2017) Risk is part of every business environment, but unless you can keep risk in check, it can grow. Losses can be avoided by assessing the potential for these threats and vulnerabilities and determining the specific risks your organization faces.

Risk = Impact x Likelihood

Use this numeric rating scale to determine your potential risk.

Impact (0-6) Likelihood (0-5)

When assessing the impact, consider the value of the assets that are at risk, what it will cost to replace them, and their importance. The things that affect likelihood include threat capability, frequency of occurrence, and the effectiveness of the countermeasures available to you.



IMPACT SCALE

- The impact is negligible.
- The effect is minor. Most operations are not affected.
- Your operations shut down for a period of time, resulting in financial loss. Customer confidence is slightly affected.
- You experience a loss of operations resulting in a significant impact on public/customer confidence.
- The effects are devastating. Systems shut down for extended periods of time. Systems must be rebuilt and data must be replaced.
- The effect is ruinous. Critical systems go offline for extended periods of time. Data gets lost or is corrupted beyond repair. The health and safety of employees is affected.

LIKELIHOOD SCALE

- Not likely to occur.
- Not likely to occur more than once a year.
- This is likely to occur once a year.
- This is likely to occur once a month.
- This is likely to occur each week.
- This is likely to occur on a daily basis.

People can significantly impair the ability of your organization to operate effectively.

PEOPLE	DESCRIPTION
Stakeholders	Employees, owners, stock holders, etc.
Contractors	Cleaning company, maintenance contractors, technical support, computer repair services, etc.
Former Employees	Retired, resigned, or were fired
Unauthorized Users	Cybercriminals, terrorists, and intruders

Use the following to assess your risk level for each threat/vulnerability.

SCORE	RISK LEVEL	RISK RESULT
21-30	High Risk	<ul style="list-style-type: none"> Major loss of assets, data, or information resources. Completely disrupts operations for a week or more. Destroys your reputation.
11-20	Medium Risk	<ul style="list-style-type: none"> Substantial loss of assets, data, or information resources. Disrupts operations for a few days. Damages your reputation.
1-10	Low Risk	<ul style="list-style-type: none"> There is a minor loss of assets or information resources. Slightly affects the organization's operation (for less than one day). Minor loss to reputation.

ASSESS THREATS AND VULNERABILITIES

Enter your Impact and Likelihood numbers to assess your threat level.

HUMAN THREATS	Impact (0-6)	Probability (0-5)	Score (Impact x Likelihood)
Human Error			
• Accidental deletion, modification, disclosure, or wrong classification of information.			
• Negligence: lack of security awareness or conduct, inadequate documentation, uninformed.			
• Workload: lack of adequate staff, and employees feel stressed.			
• Users knowingly reveal security weaknesses to criminals.			
• Improper system configuration.			
• Inadequate security policies.			
• Security policies are not enforced.			
• Security analysis incorrect or inadequate.			
Corruption			
• Fraud, theft, selling of confidential information.			
Social Engineering Attacks			
• Criminals use email or phone calls and impersonate an employee to gain confidential information.			
• Criminals execute ransomware and malware programs due to employees inadvertently letting them into your network.			
Abuse of Trust			
• Long-term or high-level employees take advantage of relaxed security policies.			

LEGAL/REGULATORY THREATS

- Failure to comply with legal/regulatory requirements, such as protecting confidentiality of employee or customer data.
- Your organization is liable for actions by employees or internal users who use your network to conduct unlawful activities (such as money laundering, pornography, gambling, etc.)
- Your organization is liable for damages because employees or other internal users hack other sites.

Impact
(0-6)

Probability
(0-5)

Score
(Impact x Likelihood)

NATURAL DISASTERS & HUMAN THREATS

- Your productivity and services are halted due to disasters: fire, smoke, water, earthquake, storms (hurricanes, tornadoes), power outages, etc.
- Your productivity and services are interrupted due to minor disasters of short duration.
- Major human-caused disasters such as war, terrorism, bombs, civil disturbances, chemical spills, radiological accidents, etc. halt or interrupt your productivity and services.
- Defective hardware, cabling, communications systems, or other equipment cause interruptions in productivity or services.

Impact
(0-6)

Probability
(0-5)

Score
(Impact x Likelihood)

CYBERCRIME THREATS

- Misuse of routing protocols that confuse and mislead systems.
- Server overloading that shuts down systems.
- Email bombing by bad actors.
- Downloading or receipt of malware.
- Sabotage with deliberate damage to data or information processing functions.
- Destruction of physical network interface devices, cables, etc.
- Destruction of computing devices, media, etc.
- Destruction of devices and media with electromagnetic radiation weapons.
- Deliberately overloading electricity or shutting it off.
- Deploying viruses and/or worms to delete critical systems files.
- Overloading data circuits with a large volume of frivolous requests.
- Employees being fooled by phishing emails.

Impact
(0-6)

Probability
(0-5)

Score
(Impact x Likelihood)

REMEDIATION ACTIVITIES

After assessing, reviewing, and rating potential threats and vulnerabilities, you should determine what actions you can take to reduce your risk. This means employing security controls, and/or increasing the strength of existing controls. Always balance the cost of doing this against the expected security benefit and risk reduction. Most remediation efforts and actions focus on the high-risk threats and vulnerabilities first.

The following table lists remediation activities you can take. They are prioritized based on their effectiveness.

RANK	REMEDIATION ACTIVITY	COST	BENEFIT	RISK
1	Establish security policies, practices, and procedures. This is very important during times of change.	LOW	HIGH	HIGH
2	Develop and enforce a globally-accepted password strategy.	LOW	HIGH	HIGH
3	List vulnerabilities in order of high to low risk.	LOW	HIGH	HIGH
4	Facilitate discussions to improve processes and communications.	LOW	HIGH	HIGH
5	Set up and follow router configuration security standards and best practices.	LOW	HIGH	HIGH
6	Harden servers on the network.	LOW	HIGH	HIGH
7	Incorporate worker termination activities with HR and IT policies.	LOW TO MODERATE	HIGH	HIGH
8	Conduct new-hire orientation, security awareness training, and annual "refresher" courses for all employees.	LOW TO MODERATE	HIGH	HIGH
9	Utilize multi-tier architecture and defense of depth in the design of your internet perimeter and enterprise architecture.	LOW TO MODERATE	HIGH	HIGH
10	Convert to a centralized and integrated model of operations management that incorporates centralized logging, event correlation, and alerting.	LOW TO MODERATE	HIGH	HIGH
11	Install an intrusion detection system.	MODERATE	HIGH	HIGH
12	Deploy encryption on mobile devices to protect the confidentiality and integrity of data.	MODERATE TO EXPENSIVE	HIGH	HIGH
13	Employ data classification to define security levels.	MODERATE TO EXPENSIVE	HIGH	HIGH
14	Conduct vulnerability assessments on a regular basis.	MODERATE TO EXPENSIVE	HIGH	HIGH
15	Designate email as mission-critical.	LOW	MODERATE	MEDIUM
16	Ensure adequate security staffing for the ISO Security Group.	EXPENSIVE	HIGH	HIGH
17	Implement Computer Security Incident Response Team (CSIRT) capabilities.	MODERATE TO EXPENSIVE	HIGH	HIGH

As you can see, securing your organization's technology is a complex task. Yet with the help of an expert IT partner, you can rest assured your company is safe. For more information, contact JMARK at 844-44-JMARK or email JMARKIT@JMARK.com. Our team has the knowledge and skill to secure your business and keep your company safe.