



Smart city resilient officer

A pressing need for all smart cities

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Why city resilience is quite important today?

City resilience is important today for several reasons:

- Climate change: Increasing frequency and severity of extreme weather events, sea level rise and other climate-related hazards pose significant threats to cities.
- Urbanization: The world's population is rapidly urbanizing, leading to growing concentration of people and assets in cities, making them more vulnerable to disasters and other shocks.
- Interconnectedness: Cities are complex systems with many interconnected components, making it more difficult to predict and respond to disruptions.
- Economic impact: Disasters and other disruptions in cities can have significant economic impacts, disrupting local and regional economies and hindering economic growth.

Therefore, cities need to be prepared to manage and recover from these challenges to ensure their continued prosperity and well-being. City resilience helps cities to be prepared and more agile in response to various challenges, reducing damage, and promoting rapid recovery, preserving social and economic stability, and maintaining the quality of life of residents.

How smart cities resilience differs from cities resilience?

Smart Cities Resilience and Cities Resilience are related but different concepts are involved.

Cities Resilience refers to a city's ability to prepare for, withstand, and recover from various disruptions, such as natural disasters, economic shocks, and other crises. It involves improving the city's infrastructure, emergency response plans, and communication systems to ensure the city can continue functioning effectively in the face of disruptions.

Smart Cities Resilience takes the concept of cities resilience a step further by integrating technology and data to enhance the city's resilience. This involves using advanced technologies such as the Internet of Things (IoT), big data analytics, and artificial intelligence to collect and analyze real-time data, enhance decision-making, and improve the city's response to disruptions.



In short, smart cities resilience builds on the foundation of cities resilience by leveraging technology to make cities more responsive, efficient, and effective in preparing for and recovering from disruptions.

Today, who is responsible for the resilience of a city?

Today, the responsibility for the resilience of a city is typically shared among various stakeholders, including:

- City government and local authorities.
- Businesses and organizations operating within the city.
- Residents and community groups.
- National and regional governments.

The exact distribution of responsibilities can vary depending on the specific context and the laws and regulations in place.

What is the role of City Resilient Officer?

A City Resilient Officer is a public official responsible for overseeing and implementing resilience strategies to prepare a city for and recover from natural disasters, extreme weather events, and other crises. They work to improve the city's infrastructure, communication systems, and emergency response plans to ensure the city can quickly recover from disruptions and continue functioning effectively.

The specific tasks and responsibilities of a City Resilience Officer include:

- Developing and implementing a city resilience strategy
- Coordinating and collaborating with various stakeholders, including government agencies, businesses, and community groups
- Conducting risk assessments and vulnerability analyses to identify key challenges and threats to the city.
- Facilitating and leading planning and response efforts in the event of a crisis or disaster
- Promoting public awareness and education about city resilience and disaster preparedness
- Monitoring and evaluating the effectiveness of resilience initiatives and programs
- Representing the city on regional, national, and international forums related to resilience and sustainability.

What is additionally included in the role of Smart City Resilient Officer?

The additional duties and responsibilities of a City Resilience Officer are:

1. Integrating and utilizing smart city technologies, such as IoT sensors, big data analytics, and artificial intelligence, to support city resilience initiatives.
2. Developing and implementing smart city resilience solutions, such as real-time monitoring systems for critical infrastructure and early warning systems for natural disasters.
3. Collaborating with technology companies and academic institutions to research and develop innovative resilience solutions.



4. Ensuring that privacy and security considerations are integrated into smart city resilience initiatives.
5. Promoting and facilitating the sharing of data and information among stakeholders to support resilience efforts.
6. Identifying and addressing challenges related to the adoption and integration of smart city technologies into resilience initiatives.

What are the main competencies required by an Smart City Resilient Officer?

Some of the main competences are:

- **Technical expertise:** A deep understanding of smart city technologies, data analytics, and resilience solutions.
- **Leadership:** The ability to effectively lead and coordinate with stakeholders from various backgrounds and organizations.
- **Strategic thinking:** A strong ability to think critically, analyze data, and develop and implement effective resilience strategies.
- **Communication skills:** The ability to communicate effectively with various stakeholders, including government officials, business leaders, and community members.
- **Project management:** The ability to plan, manage, and execute complex projects and initiatives.
- **Risk management:** An understanding of risk assessment and management techniques, as well as experience in crisis and disaster response planning.
- **Collaboration:** The ability to work effectively with other stakeholders, including technology companies, academic institutions, and community organizations.
- **Adaptability:** The ability to respond and adapt to changing circumstances, as well as an understanding of the importance of continuous learning and improvement.

Where somebody can find more information on Smart Cities Resilience Officer Job profile?

There are a number of crisis management and resilience projects and curriculums that describe the role of a Smart City Resilience Officer. Some examples include:

- **ERASMUS+ CRISIS project** has developed a job profile for Smart Cities Resilient Officer that addresses the above needs, defines formally the job profile and provides training material for offering such trainings (<https://crisisproject.eu/>).
- The **Crisis Management and Business Continuity (CMBC)** curriculum offered by the Association of Contingency Planners (ACP), which provides training and certification in crisis management, risk assessment, and resilience planning. (<https://www.acp-international.com/>)
- The **Smart City Resilience Academy**, which offers online courses, training, and certification in smart city resilience, crisis management, and risk management (<https://smartcityresilienceacademy.com/>).



- The **International Emergency Management Society (TIEMS)**, which provides education, training, and certification in emergency management, crisis management, and resilience planning (<https://www.tiems.info/>) .
- The **National Emergency Management Association (NEMA)**, which offers training and resources related to emergency management and resilience, including courses in risk assessment, crisis communications, and disaster response planning (<https://www.nemaweb.org/>).
- The **United Nations Office for Disaster Risk Reduction (UNDRR)**, which provides guidance, tools, and resources related to disaster risk reduction and resilience, including the Global Risk Assessment Framework and the Sendai Framework for Disaster Risk Reduction (<https://www.unisdr.org/>).

References

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