

**22MNC 704- INDUSTRIAL SAFETY ENGINEERING
CLASS ASSIGNMENT**

You are the latest recruit to the Impossible Mission Force (IMF), an agency which carries out secret missions. Your first assignment is with Agent Ethan Hunt. Act as a Safety Officer along with his team mates Benji and Luther, and help them in safe planning of their mission.

Your mission, should you choose to accept it, is to help Agent Hunt and his teammates to finish their secret mission by planning and executing safety measures.

(This message will self-destruct in 5 seconds.)

		Mk	CO	Level
1.	<p>Agent Hunt had used a pair of special purpose gloves without conducting any prior training or inspection and met with an accident while climbing the glass walls of Burj Khalifa. As a safety officer,</p> <div style="text-align: center;">  </div> <p>(i) Examine the reason for the accident (ii) Identify and explain an appropriate accident causation theory applicable to this incident. (iii) Suggest your recommendations that could have avoided the accident.</p>		1 2 2	Undr. Apply
2.	<p>In order to take out a suspicious package from an aircraft, Agent Hunt tries to get into the aircraft mid-flight. However, he quickly gets into his mission without any preparation. As the safety officer in-charge,</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>		1,2	Undr. Apply

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	<p>(i) Analyse the situation (Report any unsafe act or unsafe condition)</p> <p>(ii) Tabulate different types of personal protection equipment (PPE) to be used for the mission and justify the selection of each PPE.</p>	1 4		
3.	<p>In order to swap the access cards as a part of a mission, Agent Hunt adventurously enters into a confined space. The confined space is flooded with water, and high velocity water currents are ensured throughout the confined space to maintain high pressure condition. Being a safety engineer,</p> <div style="text-align: center;">  </div> <p>(i) Would you approve this action as a safety officer? Justify your answer.</p> <p>(ii) Explain the type of work permit to be issued to Agent Hunt before the mission.</p> <p>(iii) Also, list out the safety guidelines to be followed to Mr. Hunt while performing this act of entering into a confined space</p>		1,2	Undr. Apply
4.	<p>Agent Hunt, due to miscommunication with his teammate Benji lost his way and out of no other option was forced to jump off a cliff in his bike. During the jump from the cliff, he lost his control and fell on top of a running train and was severely injured. The incident resulted in fracturing his left leg and being bedridden for next 3 months.</p> <p>If his team (Hunt, Benji, Luther and you) works for an average of 13 hours per day for 4 days a week. Estimate the frequency rate and severity rate.</p> <div style="text-align: center;">  </div>	1 2 2	2 5	Undr. Apply

(Ref: Mission Impossible: Ghost Protocol, Rogue Nation, Dead Reckoning)