**ELEC352 - Task 3 - Part A**

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| **Group number:3** | |
| **PM:** | **Secretary:** |

1. As a team brain storm the **possible risks** and who **they will affect**.  In the answer box below bullet point the **stakeholders involved** in your project.

* managers
* builders
* trainers
* governors
* bankers
* sailors
* pilots
* merchants
* visitors
* local tribes

1. Using the template below, devise a **Risk Register** for your project identifying **fifteen possible risks**, estimate the probability and the impact of each risk, and calculate their severity.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Risk** | **Probability** | **Impact** | **Severity** |
| 1 | **Trainers can not teach the local people specialized skills qualified for the construction** | **2** | **3** | **6.00** |
| 2 | **International workforce suffer from the high temperature and humidity in reducing working efficiency.** | **3** | **4** | **12.00** |
| 3 | **The workers get injuries during the constructions.** | **4** | **4** | **16.00** |
| 4 | **The tall cranes and heavy construction equipment are influenced by bad weather conditions.** | **5** | **2** | **10.00** |
| 5 | **Deforestation costs go over budget due to unexpected natural environment.** | **2** | **2** | **4.00** |
| 6 | **Manager can not find specialized workforce available on the market.** | **2** | **4** | **8.00** |
| 7 | **Local tribes and protest groups obstruct the building of the park through resistance movements.** | **4** | **1** | **4.00** |
| 8 | **Governor cancel the project approval as the potential policy risk.** | **1** | **5** | **5.00** |
| 9 | **The banker can not raise enough money in supporting building the Tyrannosaurus Rex Enclosure.** | **1** | **5** | **5.00** |
| 10 | **The sailor can not set off the boat due to bad weather condition, in delaying the arrival of construction necessities.** | **5** | **2** | **10.00** |
| 11 | **The construction materials are lost during the transportation process.** | **3** | **4** | **12.00** |
| 12 | **The helicopter is broken due to lack of maintenance, and high temperature and humidity with components corroded.** | **3** | **3** | **9.00** |
| 13 | **The raw materials and tools merchants increase price in increasing the financial crisis of the whole project.** | **4** | **2** | **8.00** |
| 14 | **The visitors potentially fail off the glass corridor due to engineering quality issues, together with the aftercare and public relations issues.** | **2** | **4** | **8.00** |
| 15 | **Force majeure such as earthquake and tsunami in completely destroying the project.** | **1** | **5** | **5.00** |

State what scale was used to calculate the probability and the impact, also which method you used to calculate severity, and why.

Basically, the scale of the project is illustrated as the following table.

|  |  |  |
| --- | --- | --- |
| Scale | Probability | Impact |
| 1 | 0%-20% | Slight impact |
| 2 | 20%-40% | Not much impact |
| 3 | 40%-60% | Acceptable impact |
| 4 | 60%-80% | Harmful to people but does not seriously affect the project process |
| 5 | 80%-100% | Harmful to people and affect the project process |

1. In no more than **200 words**, identify which risk should be dealt with as highest priority, briefly describe the relevant issues, and suggest what you will do to mitigate against it. Your discussion should refer to stakeholders, time and money.

Risk “The workers get injuries during the constructions” is labelled as the highest risk with the 16 as the severity. It is because the probability is within 60% and 80% range, and the corresponding impact is harmful to people, but not seriously affect the project process. This issue will impact the following stakeholders directly, which are manager, builder, since the manager need to solve the aftercare issues, and the builders are suffering from the pains occurred through this accident, and there is not enough workers in finishing the task on time. Additionally, this issue will also impact the governors and banker potentially, since these accidents may raise negative reputations for the project, and the governments’ approval together with banks’ fundraising efforts may be influenced.

In terms of the corresponding solutions in mitigating the risk, firstly, the manager should lay the safety production as the highest priority among all factors in the project management process, and guarantee there are qualified protective gears available for workers. Additionally, workers should attend safety seminars in reinforce the importance of safety production and go out of the way in reducing the corresponding risk.