Human Factors Contribution to Aircraft Accidents

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i. Dedication

It is our immense pleasure to declare that this thesis/project is dedicated to our beloved parents without whom we would not be able to be where we are today. This project is a clear prove of our parents hard work on us for making us today what we are. Therefore, with our full heart we dedicate this project to our parents.

Secondly, this project is also a hard work of our respected Sir and our mentor Nawaz Gill without whom we wouldn't be able to do this project alone. This project is developed using all his vast knowledge about the field and his kind nature which made this project easy for us. Therefore, we also dedicate this project to our respectful Sir Nawaz Gill.

ii. Acknowledgement

Firstly, I would like to thank Allah Almighty for so many blessings He has bestowed upon me. For giving me the power to learn, read and write due to which I'm able to able to complete my thesis.

Secondly, I would like to express my special thanks to my wonderful resource person Sir Nawaz Gill who is not only a great teacher but also a great person. Without whose help I wouldn't have been able to do my thesis. He guided my and enlighten me with so many new things and I'm extremely honoured to be working under his guidance.

Lastly, I would like to thank my beloved parents who believed in me and made me strong and giving me the opportunity to study in this specific field of Aviation Sciences.

iii. Abstract

This project is mainly focuses on the importance of human factors in the aviation industry and may lead to an accident or incident. This covers all the major factors and reasons why humans in some cases fail to reach their targets and can results in catastrophic accidents. Since the birth of aircrafts and aviation, major accidents has taken place which result in loss of many lives, and the main factor that caused all that was human's negligence. Taking all this in consideration the rules, procedures, trainings and mitigations have being applied in order to make it safer yet hindrance is caused because of human factors. 70-80% accidents are caused by human factors which are being improved by putting an extra shield of safety by providing training and procedure at the airports or training organizations. This project comprises of all the attributes that contributes in this careless behaviour and all the accidents that were caused due to that ignorance is also highlighted. It will be beneficial to the future readers to understand this problem and starting point of error analysis.

1.0 Introduction

Man has always dreamed about flying. People always fascinated birds and many attempts were made to fly by kites, tower jumping and building wings but all these attempts were failed and many deaths took place. Still people never backed out and found new ways to keep flying. In 15th century, Leonardo Da Vinci first took interest in scientifically search about ways to fly but never invented them. Then around 18th century simultaneously helium gas was discovered and first man made hot balloons were invented which again contributed to flying. Many new studies were taking places in different field of science like physics which introduced Newton's law of motions and fluid dynamics etc.