# List f tables

11 Various Mitigation Methods and Their Implications 23

31 Potential Harm Associated with Some Hazards and Their Control Measures.....45

32 Impact Description..... 47

33 Probability Description.....47

34 HIRA for Wood Cutting Operation..... 48

35 Circular Saw without Any Guard.....49

36 Fixed Type Saw Guard Made of Steel Plate..... 50

37 Suspended Saw Guard Made of Steel Plate..... 52

38 HIRA for Saw Guard with Integrated Sensor.....54

39 HIRA for Circular Saw Guard with Flap Type Acrylic Material... 56

310 Distribution of Incidents Associated with Various Types of Guards 58

311 Checklist to Identify Checkpoints of Circular Saw Machines.....59

312 Summary of HIRA-Wood Cutting Operations with Various Types of Guards..... 60

41 Study of HIRA on Ladder Usage.....64

42 Variation of Co-efficient of Friction and Force with Various Angles 72

43 Deflection and Frequency of Aluminium Ladder with Eccentric Point Load.....77

44 Deflection and Frequency of Aluminium Ladder with Point Load at the Centre.....77

51 Various Methods for Cylinder Handling.....85

52 Force and Velocity Variations at Various Angles of Ramp..... 87

61 Potential Exposure Associated with Various Welding Processes... 95

62 Health Hazards of Metal Fumes.....99

63 Health Hazards of Gases.....100

64 Variation of Average Percentage of Dilution of Fume Concentration at Various Angles of The Portal Head... ... 109

65 Concentration of Common Hazardous Fumes/Gases and their Safe Concentration Limits..... 111

71 Comparison of Various Standards..... .....118

72 Helmet Clearances as per Hong Kong Standards……118
73 Helmet without Load Carrying Facility…… 119
81 Severity Potential of Consequence… ……124
82 Safe Distance……124
83 Incident Potential……125