



## Manual Handling Assessment Charts (MAC) - Score Sheet

Company Name:

Task Description - Please use diagrams if necessary

Are there indications that the task is high risk? (Please tick appropriate boxes)

☐

Task has a history of manual handling incidents  
(eg company accident book, RIDDOR reports)

☐

Task is known to be hard work or high risk

☐

Employees doing the work show signs that they are finding it hard work  
(eg sweating heavily, redness, sweating)

☐

Other indications, if so what?

Signature:

Date:

Insert the colour band for each of the risk factors in the boxes below, referring to your assessment using the tool

Risk Factors	Colour Band (G, A, R, or P)			Numerical Score		
	Lift	Carry	Team	Lift	Carry	Team
Load weight and W/carry frequency						
Hand distance from the lower back						
Vertical lift region						
Trunk twisting/torsion bending Asymmetrical trunk/foot carrying						
Postural constraints						
Grip on the load						
Floor surface						
Other environmental factors						
Carry distance (carrying only)						
Obstacles on route (carrying only)						
Communication and co-ordination (team handling only)						
Total Score				0	0	0

Other risk factors, eg individual factors, psychosocial factors etc

For information on reducing the risks of individual or psychosocial factors [Click here](#)

# Manual Handling Mac Score Sheet

**Lei Huang**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

## Manual Handling Mac Score Sheet:

*Evaluation of Human Work* John R. Wilson, Sarah Sharples, 2015-04-16 Written by experts with real world experience in applying ergonomics methodology in a range of contexts *Evaluation of Human Work* Fourth Edition explores ergonomics and human factors from a doing it perspective More than a cookbook of ergonomics methods the book encourages students to think about which methods they should apply when and why Proceedings of the 2nd Human Engineering Symposium Mohd Hasnun Arif Hassan, Mohd Nadzeri Omar, Nasrul Hadi Johari, Yongmin Zhong, 2024-03-11 This book acts as a compilation of papers presented in the 2nd Human Engineering Symposium HUMENS 2023 held at Pekan Pahang Malaysia The symposium covers the following research topics ergonomics biomechanics sports technology medical device and instrumentation artificial intelligence machine learning industrial design rehabilitation additive manufacturing modelling and bio simulation and signal processing The articles published will be of interest to researchers and practitioners from the medical device manufacturers healthcare rehabilitation and sports technology **Clay's Handbook of Environmental Health** Stephen Battersby, 2016-07-01 Clay's Handbook of Environmental Health since its first publication in 1933 has provided a definitive guide for the environmental health practitioner or reference for the consultant or student This 21th edition continues as a first point of reference reviewing the core principles techniques and competencies and then outlining the specialist subjects It has been refocused on the current curriculum of the UK's Chartered Institute of Environmental Health but should also readily suit the generalist or specialist working outside the UK Landwards, 2000 **Reviews of English Language Proficiency Tests** J. Charles Alderson, Karl J. Krahnke, Charles W. Stansfield, 1987 This guide contains descriptive and evaluative information on 47 major commercially available English as a Second Language ESL tests in current use around the world For each test the following information is provided complete title acronym publication date targeted audience intended purpose scoring method administration type group or individual test length test components costs author's publisher including complete address and telephone number a review which includes a description of the test and discussion of its reliability validity and related issues and test and reviewer's references An introductory section offers guidance on the use of the reviews uses and misuses of testing and purposes of testing placement measuring achievement diagnosis measuring proficiency In addition two sections provide an introduction to ESL proficiency testing in North America and an overview of ESL testing in Britain MSE InfoWorld, 1989 Cassier's Industrial Management and Mechanical Handling, 1958 Mechanical Handling and Works Equipment, 1968 **Newmedia**, 1996 *MacUser*, 1991 *Keyboard*, 1988 The United States Catalog Mary Burnham, Carol Hurd, 1928 **PC Magazine**, 1988 *Interscholastic Athletic Administration*, 1994 Thomas Register of American Manufacturers, 2003 Vols for 1970 71 includes manufacturers catalogs *Nibble*, 1989 **PC World**, 1989 **The Software Encyclopedia**, 1988 Clavier, 1988 **A+**, 1985

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a four quadrant or multiple quadrant operation is required in industrial as well as commercial applications these applications require both driving and braking i e motoring and generating capability some of these applications include electric traction systems cranes and lifts cable laying winders and engine test loading systems

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paper proposes a way to govern the rate and route control of a dc motor with the help of a 4 quadrant dc dc chopper the speed under the base velocity may be controlled by way of armature voltage manage technique mosfets are used for the switching operation of the chopper the gates of those mosfets are given pwm

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

**four quadrant speed control of dc motor with microcontroller** - Jan 13 2023

3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward breaking mode forward motoring mode reverse breaking or stop mode and reverse motoring mode a motor operates in two modes motoring and breaking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

study on series motor four quadrants dc chopper operation - Mar 03 2022

may 11 2021 a four quadrants dc chopper fqdc has been developed to work with a series motor for the application of dc drive electric vehicle in previous work capable of operating in such driving conditions and offers several types of chopper operation modes such as driving and reverse regenerative and resistive braking generator mode field weakening

**motor 4 quadrant dc chopper operation electrical** - Jun 18 2023

aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor's generated low voltage up to the supply voltage

*what is four quadrant motor control and how does it work* - Apr 16 2023

put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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sep 11 2019 four quadrants drive dc chopper for series motor full size image this modes of operation can be controlled by ai controllers such as expert system fuzzy logic self tuning fuzzy 10 11 12 13 14 15 16 neural network as well as anfis but this paper focused only on the circuit operation of generator mode

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

experiment 6 four quadrant operation of dc motor - Mar 15 2023

1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

**four quadrant operation of dc motor motoring and braking operation** - Aug 20 2023

aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

**four quadrant operation and control of three phase bldc motor without** - Aug 08 2022

the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

**four quadrant operation of dc motor sciamble** - May 17 2023

aug 3 2019 introduction in this experiment four quadrant operation of a dc motor is simulated as well as run in real time the speed and current control model developed in the previous experiment is used to emulate the four regions of operation theoretical background consider an elevator system shown in figure below

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