

# **MSD tool report**

Manual handling assessment charts (the MAC Tool)

## **Sample Organisation 9.1**

23 January 2020

Filter: All Respondents



# Executive summary

This summary report contains results for the MAC tool carried out by Sample Organisation 9.1.

The Manual Handling Assessment Charts (MAC) is a tool aimed at employers, health and safety managers and safety representatives and is used by health and safety inspectors. The tool will help you assess the most common risk factors in lifting (and lowering), carrying and team handling operations and was developed to identify high-risk manual handling. It will point you towards the factors you need to modify to control these risks.

This report summarises the scores for all the MAC assessments across your organisations, the data from this report and all individual assessments can be extracted in Excel format for further analysis. This report will enable Sample Organisation 9.1 to focus on the priority areas and make targeted improvements to successfully manage manual handling risks.

Incorrect manual handling is one of the most common causes of injury at work. It causes work-related musculoskeletal disorders (MSDs) which account for over a third of all workplace injuries. (For the latest statistics, visit the HSE web page, [www.hse.gov.uk/statistics/causdis/musculoskeletal/index.htm](http://www.hse.gov.uk/statistics/causdis/musculoskeletal/index.htm).)

## Your performance

The following chart shows your mean score for **Lift**, **Carry** and **Team** assessments. HSE is currently developing benchmarking data which will be shown here when it becomes available.

Lift score



Carry score



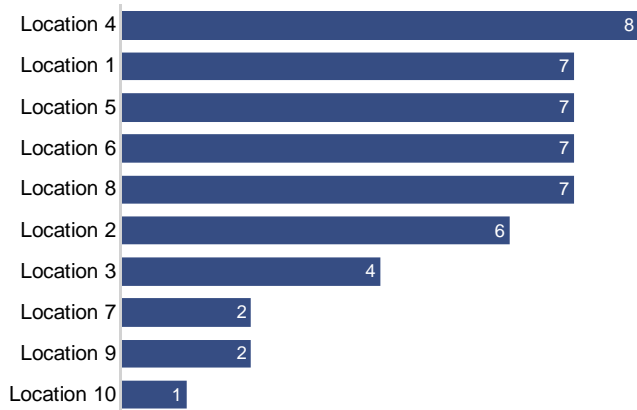
Team score



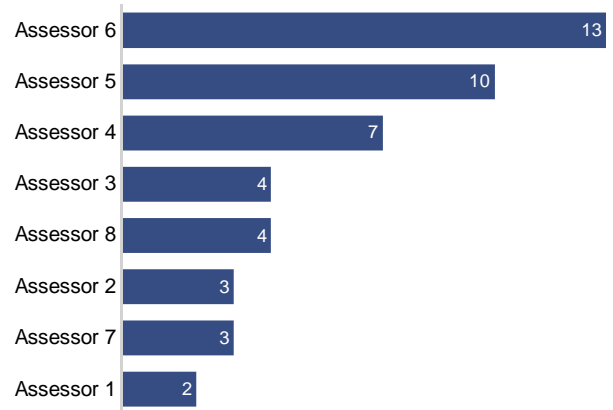
## Number of assessments completed

A total of 51 has been completed across Sample Organisation 9.1. With 16 lift assessments, 20 carry assessments and 16 team assessments. The below charts help identify what assessments have been completed by location and assessor.

Number of assessments by location



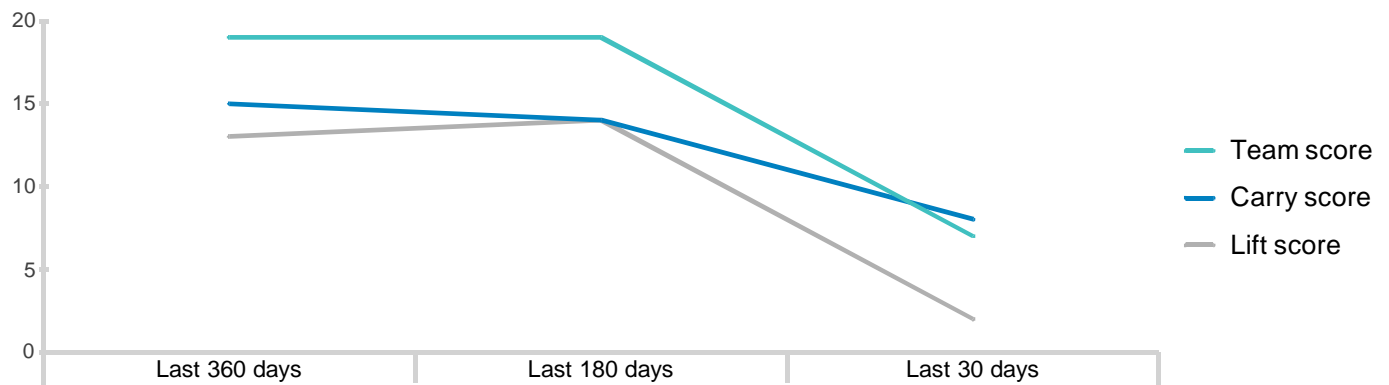
Number of assessments by assessor



## Assessments completed over time

Counts Respondents	Last 30 days	Last 90 days	Last 180 days	Last 360 days
Total	3	3	30	51
Location A	-	-	5	7
Location B	-	-	3	6
Location C	1	1	2	4
Location D	1	1	6	8
Location E	1	1	5	7
Location F	-	-	4	7
Location G	-	-	2	2
Location H	-	-	1	7
Location I	-	-	1	2
Location J	-	-	1	1

Average assessment score over time



# Suggested priorities for improvements

When devising your action plan, start by focusing on the following key areas identified by the assessment's results:

- Actual risk of serious personal injury – critical
- Significant / probable / substantial – high priority
- Significant / possible / moderate – medium priority

## Actual risk of serious personal injury - critical

### Lift

Activity	Site	Assessor	Type	Lift score
Task 8 (30/09/2019)	Location 4	Assessor 6	Lift	20

### Carry

Activity	Site	Assessor	Type	Carry score
Task 1 (30/09/2019)	Location 10	Assessor 1	Carry	23
Task 9 (30/09/2019)	Location 7	Assessor 1	Carry	21
Task 21 (31/08/2019)	Location 6	Assessor 5	Carry	23
Task 37 (28/06/2019)	Location 9	Assessor 5	Carry	15
Task 42 (20/03/2019)	Location 3	Assessor 6	Carry	21

### Team

Activity	Site	Assessor	Type	Team score
Task 17 (31/08/2019)	Location 5	Assessor 8	Team	20
Task 18 (31/08/2019)	Location 5	Assessor 7	Team	21
Task 30 (28/06/2019)	Location 6	Assessor 3	Team	23
Task 34 (28/06/2019)	Location 5		Team	18
Task 45 (20/03/2019)	Location 2	Assessor 6	Team	15

## Significant / probable / substantial - high priority

### Lift

Activity	Site	Assessor	Type	Lift score
Task 15 (30/09/2019)	Location 7		Lift	18

## Carry

Activity	Site	Assessor	Type	Carry score
12345 (23/01/2020)	Location 5	Assessor 4	Carry	8
Task 1 (30/09/2019)	Location 10	Assessor 1	Carry	23
Task 4 (30/09/2019)	Location 5	Assessor 6	Carry	9
Task 6 (30/09/2019)	Location 6	Assessor 3	Carry	9
Task 29 (28/06/2019)	Location 2	Assessor 5	Carry	17
Task 39 (28/06/2019)	Location 4	Assessor 5	Carry	18
Task 41 (28/06/2019)	Location 2	Assessor 6	Carry	18
Task 44 (20/03/2019)	Location 8	Assessor 8	Carry	21

## Team

Activity	Site	Assessor	Type	Team score
Task 3 (30/09/2019)	Location 1	Assessor 6	Team	19
Task 5 (30/09/2019)	Location 1	Assessor 8	Team	20
Task 10 (30/09/2019)	Location 4	Assessor 7	Team	21
Task 13 (30/09/2019)	Location 2	Assessor 5	Team	14
Task 24 (31/08/2019)	Location 8	Assessor 4	Team	20
Task 26 (31/08/2019)	Location 1		Team	22
Task 28 (28/06/2019)	Location 6	Assessor 5	Team	21
Task 35 (28/06/2019)	Location 8	Assessor 3	Team	17
Task 46 (20/03/2019)	Location 8	Assessor 6	Team	20

## Significant / possible / moderate - medium priority

### Lift

Activity	Site	Assessor	Type	Lift score
Task 7 (30/09/2019)	Location 1	Assessor 4	Lift	14
Task 15 (30/09/2019)	Location 7		Lift	18
Task 20 (31/08/2019)	Location 4	Assessor 6	Lift	12
Task 36 (28/06/2019)	Location 5	Assessor 5	Lift	12
Task 49 (20/03/2019)	Location 6	Assessor 4	Lift	14

### Carry

Activity	Site	Assessor	Type	Carry score
12345 (23/01/2020)	Location 5	Assessor 4	Carry	8
Task 25 (31/08/2019)	Location 6	Assessor 7	Carry	10
Task 39 (28/06/2019)	Location 4	Assessor 5	Carry	18
Task 41 (28/06/2019)	Location 2	Assessor 6	Carry	18
Task 43 (20/03/2019)	Location 8		Carry	14
Task 44 (20/03/2019)	Location 8	Assessor 8	Carry	21

## Team

Activity	Site	Assessor	Type	Team score
Task 5 (30/09/2019)	Location 1	Assessor 8	Team	20
Task 13 (30/09/2019)	Location 2	Assessor 5	Team	14
Task 24 (31/08/2019)	Location 8	Assessor 4	Team	20
Task 26 (31/08/2019)	Location 1		Team	22
Task 27 (31/08/2019)	Location 1		Team	14
Task 28 (28/06/2019)	Location 6	Assessor 5	Team	21
Task 35 (28/06/2019)	Location 8	Assessor 3	Team	17
Task 46 (20/03/2019)	Location 8	Assessor 6	Team	20

The tables below help highlight focus areas based on organisations demographics. The tables below will help you identify if there is specific locations that need prioritising.

Counts Respondents	Risk		
	Actual risk of serious personal injury	Significant / probable / substantial	Significant / possible / moderate
Total	11	18	19
Site			
Location 1	0	3	4
Location 2	1	3	2
Location 3	1	0	0
Location 4	1	2	2
Location 5	3	2	2
Location 6	2	2	3
Location 7	1	1	1
Location 8	0	4	5
Location 9	1	0	0
Location 10	1	1	0
Location 11	0	0	0
Location 12	0	0	0
Location 13	0	0	0
Location 14	0	0	0

Counts Respondents	Risk		
	Actual risk of serious personal injury	Significant / probable / substantial	Significant / possible / moderate
Total	10	16	15
Assessor			
Assessor 1	2	1	0
Assessor 2	0	0	0
Assessor 3	1	2	1
Assessor 4	0	2	4
Assessor 5	2	4	4
Assessor 6	3	4	3
Assessor 7	1	1	1
Assessor 8	1	2	2

# Scores by risk factor

This section helps identify common risk factors across all assessments. The below tables show a combined count of risk factors across all assessments completed.

## Lift

Counts Respondents	(GREEN)	(AMBER)	(RED)	(PURPLE)
Load weight / frequency	3	6	6	1
Hand distance from the lower back	9	4	2	-
Vertical lift zones	8	4	4	-
Torso twisting and sideways bending	3	3	10	-
Postural constraints	2	9	5	-
Grip on the load	8	5	3	-
Floor surface	2	5	9	-
Environmental factors	3	11	2	-

## Carry

Counts Respondents	(GREEN)	(AMBER)	(RED)	(PURPLE)
Load weight / frequency	6	5	3	5
Hand distance from the lower back	6	9	5	-
Torso twisting and sideways bending OR Asymmetrical torso or load (carrying)	8	5	7	-
Postural constraints	3	14	3	-
Grip on the load	5	9	6	-
Floor surface	9	7	4	-
Carry distance	3	14	3	-
Obstacles on route	7	12	-	-
Environmental factors	2	14	4	-

## Team

Counts Respondents	(GREEN)	(AMBER)	(RED)	(PURPLE)
Load weight / frequency	2	2	7	5
Hand distance from the lower back	8	6	2	-
Vertical lift zones	3	10	3	-
Torso twisting and sideways bending OR Asymmetrical torso or load (carrying)	8	4	4	-
Postural constraints	7	4	5	-
Grip on the load	3	11	2	-
Floor surface	3	7	6	-
Carry distance	8	5	3	-
Obstacles on route	5	7	3	-
Communication, co-ordination and control	8	5	3	-
Environmental factors	6	7	3	-



# Average (mean) scores by location

This section helps identify common themes across all assessments completed.

## Lift

	Lowest	Average (mean)	Highest	No. of assessments
Location 1	14	14	14	2
Location 2	11	15	19	2
Location 4	2	12	20	5
Location 5	10	11	12	2
Location 6	10	12	14	2
Location 7	18	18	18	1
Location 8	12	12	12	2

## Carry

	Lowest	Average (mean)	Highest	No. of assessments
Location 1	10	10	10	1
Location 2	17	17.5	18	2
Location 3	7	11.3	21	4
Location 4	9	13.5	18	2
Location 5	8	8.5	9	2
Location 6	9	14	23	3
Location 7	21	21	21	1
Location 8	14	17.5	21	2
Location 9	11	13	15	2
Location 10	23	23	23	1

## Team

	Lowest	Average (mean)	Highest	No. of assessments
Location 1	14	18.8	22	4
Location 2	14	14.5	15	2
Location 3	7	7	7	1
Location 4	21	21	21	1
Location 5	18	19.7	21	3
Location 6	21	22	23	2
Location 8	17	19	20	3

# All assessments

A table for each assessment that shows the scores, example below based on the MAC tool.

Activity	Site	Assessor	Lift score	Carry score	Team score
12345 (23/01/2020)	Location 5	Assessor 4		8	
Task 1 (30/09/2019)	Location 10	Assessor 1		23	
Task 2 (30/09/2019)	Location 6	Assessor 2	10		
Task 3 (30/09/2019)	Location 1	Assessor 6			19
Task 4 (30/09/2019)	Location 5	Assessor 6		9	
Task 5 (30/09/2019)	Location 1	Assessor 8			20
Task 6 (30/09/2019)	Location 6	Assessor 3		9	
Task 7 (30/09/2019)	Location 1	Assessor 4	14		
Task 8 (30/09/2019)	Location 4	Assessor 6	20		
Task 9 (30/09/2019)	Location 7	Assessor 1		21	
Task 10 (30/09/2019)	Location 4	Assessor 7			21
Task 11 (30/09/2019)	Location 9	Assessor 6		11	
Task 12 (30/09/2019)	Location 4	Assessor 5	17		
Task 13 (30/09/2019)	Location 2	Assessor 5			14
Task 14 (30/09/2019)	Location 4	Assessor 2	9		
Task 15 (30/09/2019)	Location 7		18		
Task 16 (31/08/2019)	Location 2	Assessor 6	19		
Task 17 (31/08/2019)	Location 5	Assessor 8			20
Task 18 (31/08/2019)	Location 5	Assessor 7			21
Task 19 (31/08/2019)	Location 5	Assessor 3	10		
Task 20 (31/08/2019)	Location 4	Assessor 6	12		
Task 21 (31/08/2019)	Location 6	Assessor 5		23	
Task 22 (31/08/2019)	Location 3	Assessor 8		9	
Task 23 (31/08/2019)	Location 2	Assessor 6	11		
Task 24 (31/08/2019)	Location 8	Assessor 4			20
Task 25 (31/08/2019)	Location 6	Assessor 7		10	
Task 26 (31/08/2019)	Location 1				22
Task 27 (31/08/2019)	Location 1				14
Task 28 (28/06/2019)	Location 6	Assessor 5			21
Task 29 (28/06/2019)	Location 2	Assessor 5		17	
Task 30 (28/06/2019)	Location 6	Assessor 3			23
Task 31 (28/06/2019)	Location 1	Assessor 4		10	
Task 32 (28/06/2019)	Location 1	Assessor 6	14		
Task 33 (28/06/2019)	Location 3	Assessor 4		7	
Task 34 (28/06/2019)	Location 5				18
Task 35 (28/06/2019)	Location 8	Assessor 3			17
Task 36 (28/06/2019)	Location 5	Assessor 5	12		
Task 37 (28/06/2019)	Location 9	Assessor 5		15	
Task 38 (28/06/2019)	Location 8	Assessor 5	12		
Task 39 (28/06/2019)	Location 4	Assessor 5		18	
Task 41 (28/06/2019)	Location 2	Assessor 6		18	
Task 42 (20/03/2019)	Location 3	Assessor 6		21	

Activity	Site	Assessor	Lift score	Carry score	Team score
Task 43 (20/03/2019)	Location 8			14	
Task 44 (20/03/2019)	Location 8	Assessor 8		21	
Task 45 (20/03/2019)	Location 2	Assessor 6			15
Task 46 (20/03/2019)	Location 8	Assessor 6			20
Task 47 (20/03/2019)	Location 8	Assessor 6	12		
Task 48 (20/03/2019)	Location 4	Assessor 5		9	
Task 49 (20/03/2019)	Location 6	Assessor 4	14		
Lifting plants from Ian's jungle (23/01/2020)	Location 4	Assessor 2	2		
78910 (23/01/2020)	Location 3	Assessor 4		8	7

The scoring for each assessment helps identify the priority / focus areas with the highest risk factor. Possible control measures to reduce the risk – see <http://www.hse.gov.uk/msd/mac/control-measures-scoresheet.htm> for more information.

## Need more support?

Assessments forms only a part of your MSD risk assessment and identifying areas for improvement is just the start of your programme to reduce work-related MSD and enhance performance and wellbeing.

If you need support taking further steps, specialists in HSE's Team are available every step of the way, whether it's training your managers, helping you to set up a focus group or providing independent advice, we have a team of experts that are uniquely placed to support your interventions.

[Link to HSE Training](#)

[Link to HSE Consultancy](#)