**Attachment L-2:**

**MSD Intervention Study Design**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Oct. 2011** |  |  |  |  | **Oct. 2012** |  |  |  |  | **Oct. 2013** |   |   |   | **Oct. 2014** |
|  | **2yrs pre- data (WC only)** | **0 Base-line A** |  | **3** | **6** | **9** | **12 Base-line B** |  | **15** | **18** | **21** | **24** | **27** | **30** | **33** | **36** |
| **Group A****(R)****36 est.** **384 emp.** |  | OI-1 | X | OI-2 | OI-3 | OI-4 | OI-5 |  | OI-6 | OI-7 | OI-8 | OI-9 | OI-10 | OI-11 | OI-12 | OI-13 |
| OE1-8 | OE-9 | OE-10 | OE-11 | OE-12 | OE-13 | OE-14 | OE-15 | OE-16 | OE-17 | OE-18 | OE-19 | OE-20 | OE-21 |
| **Group B****(R)****36 est.** **384 emp.** |  | OI-1 |  | OI-2 | OI-3 | OI-4 | OI-5 | X | OI-6 | OI-7 | OI-8 | OI-9 | OI-10 | OI-11 | OI-12 | OI-13 |
| OE1-8 | OE-9 | OE-10 | OE-11 | OE-12 | OE-13 | OE-14 | OE-15 | OE-16 | OE-17 | OE-18 | OE-19 | OE-20 | OE-21 |
| **Notes**: “O” denotes data collection, and “X” denotes intervention, PHT-TLG. OI = MSD Symptoms, Exertion (Individual employee level). OE= WC data, Quality, Productivity (Establishment level). * The self-reported general work environment and health survey (**Attachment H-4**) will be collected at the start of the study and once every year for 2 years.
* The self-reported low back pain (**Attachment H-1**), self-reported shoulder/ arm pain (**Attachment H-2**), and self-reported specific job tasks and safety incidents (**Attachment H-3**) surveys will be collected at the start of the study and every 3 months for 2 years.
* Low Back Functional Assessment (**Attachment I)** will be completed by 20% of participating employees at the start of the study and once every year for 2 years.
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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Target # of Establishments to recruit from each size category | Establishment Size Category for Total Employees | Mean Total Employees per Site | Mean Impacted Employees per Site | Average # PHT-TLG per site | Total #PHT-TLGs | Total Impacted Employees |
| 24 | <20 | 10 | 2 | 1 | 24 | 48 |
| 24 | 20-99 | 50 | 10 | 3 | 72 | 240 |
| 24 | 100+ | 100\* | 20 | 5 | 120 | 480 |
|  |  |  |  | Totals | 216 | 768+ |
| \*Most companies will be near the lower end of the strata+ 960 subjects are expected with replacements |