| Modifications EAWS V1.3.4. versus V1.3.3 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Line | Subject | V1.3.3 | V1.3.4 | Comments |
| Result of overall evaluation |  |  |  |  |
| Overall evaluation | Text (remark on the calculation / interpretation) | none | Calculate the total score of the whole body sections and compare it to the upper limbs score. The overall result is determined by the higher value but interpretation should also take into account the second value. | More precise assignement |
| Section 0: Extra points |  |  |  |  |
| Annotation | Text (Advice to non-automotive sectors) | For details see the EAWS manual. | Lines Oa-b mainly relate to the Automotive Industry, for other sectors additional elements may be necessary. |  |
| Section 1: Postures |  |  |  |  |
| Header | Text of the 1. annotation | (incl. loads of <3kg and action forces of 30-40N) | (incl. loads of <3 kg, forces onto fingers of <30 N and whole body forces of <40 N) | More precise assignement |
| Header | Text of the 2. annotation | Static postures : > 4sec | Static postures: $\geq 4 \mathrm{sec}$ | Corresponding to the def. in the manual (more conservative than EN 1005-1: >4s, but easier in application) |
| Header | Text of the 3. annotation | High frequent movements: 2 trunk bendings or 10 arm fittings $>60^{\circ}$ per min | High frequent movements: <br> Trunk bending $\left(>60^{\circ}\right) \geq 2 /$ min <br> Movements into knee/crouch $\geq 2 /$ min <br> Arm lifting $\left(>60^{\circ}\right) \geq 10 / \mathrm{min}$ | More precise assignement |
| Sum line | Format |  | Slight modification of the format of the annotatio | n and sum line |
| Table Trunk rotation | Content | slightly: <10 / extreme: $>30^{\circ}$ | slightly: $\leq 10^{\circ} /$ extreme: $\geq 30^{\circ}$ | Easier interpolation |
| Section 2: Action forces |  |  |  |  |
| Scoring tables | Duration points whole body | $n=1-2->1,5$ | $\mathrm{n}=1$-> 1 |  |
| Whole body table | Some values Fmax |  | Correction of the values: <br> ST Upright, P40: <br> +C 185 (instead of 165) <br> -C 165 (instead of 155) <br> KN Upright, P40: <br> -C 160 (instead of 150) <br> Sl Upright, P40: <br> +C 165 (instead of 155) <br> ST Bent, P15: <br> +B 205 (instead of 206) <br> KN Above head, P40: <br> -C 180 (instead of 190) | Alignment with Force Atlas |
| Whole body table | Presentation of the figure | Presentation with $\mathrm{A}+/-$ etc. | Correct presentation with +/- A etc. |  |
| Finger force table | Text of the title | Finger forces (neutral to gender) | Finger forces Fmax (neutral to gender) | in analogy to Forces Fmax onto arms/whole body forces |
| Annotations | Elimination Max. Points | Attention: Max. Pts=350 line 17 / 500 line 18 | none | Annotation misleading |
|  |  |  |  |  |


| Line | Subject | V1.3.3 | V1.3.4 | Comments |
| :---: | :---: | :---: | :---: | :---: |
| Section 3: Manual Material Handling |  |  |  |  |
| Load points | Elimination interpolation line |  | No interpolation line between the last 2 columns |  |
| Means of transport | Description M1 | Barrows, rope balancers | Barrows (plus elmination balancer illustration) | Misleading |
| Posture points | Value 2nd section | 0-2 | 1 | Easier for interpolation |
| \#, duration points | Description 1st line | Frequency of repositionings / pushing\&pulling | Frequency of repositionings / pushing\&pulling short | More cllear |
| \#, duration points | Description 3rd line | Distance (carrying, pushing\&pulling) [m] | Distance (carrying, pushing\&pulling long) [m] | More cllear |
| \#, duration points | Line "Duration" | >240 | $\geq 240$ | Mistake in V1.3.3. when changing the EAWS form from Word to Excel |
| \#, duration points | Line "Distance" | $\begin{aligned} & 6500 \\ & 16000 \end{aligned}$ | $\begin{aligned} & 6000 \\ & \geq 16000 \end{aligned}$ | Mistake in V1.3.3. when changing the EAWS form from Word to Excel |
| Result line | Format | 4 categories (2 for P\&P short/long) | 5 categories (2 for P\&P short/long) | Easier for application |
| Section 4: Upper limb load |  |  |  |  |
| Line 20a | Calculation FFGD | 3 columns | 4 columns | Still under discussion |
| Line 20a | Text (sum line) |  | Additional indications | Easier match with the calculation |
| Line 20b/c/d | Text (result boxes) |  | PP, AF, DP | scheme |
| Line 20 | Text (overall result) |  | FFG, PP, AF, DP |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Legend: |  |  |  |  |
| Modifications Fondazione ERGO-MTM Italia |  |  |  |  |
| Modifications IAD |  |  |  |  |
| Modifications proposed in order to assure a better application |  |  |  |  |

