

Aachen Workload Scales
Mapping Aldrich, et al. (1989) Scales to cMRT Model of Driver Distraction

Scale Val.	Descriptors	Resource	New Val.
Response			
1.0	Speech	Response-Verbal	0
2.2	Discrete Actuation (Button, Toggle, Trigger)	Response-Spatial	1
2.6	Continuous Adjustive	Response-Spatial	1
4.6	Manipulative	Response-Spatial	2
5.8	Discrete Adjustive	Response-Spatial	2
6.5	Symbolic Production (Writing)	Response-Spatial Response-Verbal	3
7.0	Serial Discrete Manipulation (Keyboard Entries)	Response-Spatial Response-Verbal	3

Scale Val.	Descriptors	Resource	New Val.
Tactile			
1.0	Detect Discrete Activation of Switch (Toggle, Trigger, Button)	Tactile-Spatial Tactile-Verbal	0
4.0	Detect Preset Position or Status of Object	Tactile-Spatial	2
4.8	Detect Discrete Adjustment of Switch (Discrete Rotary or Discrete Lever Pos.)	Tactile-Spatial	2
5.5	Detect Serial Movements (Keyboard Entries)	Tactile-Spatial Tactile-Verbal	2
6.1	Detect Kinesthetic Cues Conflicting with Visual Cues	Tactile-Spatial Tactile-Verbal	3
6.7	Detect Continuous Adjustment of Switches (Rotary Rheostat, Thumbwheel)	Tactile-Spatial	3
7.0	Detect Continuous Adjustment of Controls	Tactile-Spatial Tactile-Verbal	3

Scale Val.	Descriptors	Resource	New Val.
Visual			
1.0	Visually Register/Detect (Detect Occurrence of Image)	Visual-Verbal	0
3.7	Visually Discriminate (Detect Visual Differences)	Visual-Spatial-Ambient	1
4.0	Visually Inspect/Check (Discrete Inspection/Static Condition)	Visual-Spatial-Focal	2
5.0	Visually Locate/Align (Selective Orientation)	Visual-Spatial-Focal	2
5.4	Visually Track/Follow (Maintain Orientation)	Visual-Spatial-Focal Visual-Spatial-Ambient	2
5.9	Visually Read (Symbol)	Visual-Verbal	3
7.0	Visually Scan/Search/Monitor (Continuous/Seriel Inspection, Multiple Conditions)	Visual-Spatial-Focal Visual-Verbal	3

Scale Val.	Descriptors	Resource	New Val.
Cognitive			
1.0	Automatic (Simple Association)	Cognitive-Spatial Cognitive-Verbal	0
1.2	Alternative Selection	Cognitive-Spatial Cognitive-Verbal	0
3.7	Sign/Signal Recognition	Cognitive-Verbal	1
4.6	Evaluation/Judgment (Consider Single Aspect)	Cognitive-Spatial Cognitive-Verbal	2
5.3	Encoding/Decoding, Recall	Cognitive-Spatial Cognitive-Verbal	2
6.8	Evaluation/Judgment (Consider Several Aspects)	Cognitive-Spatial Cognitive-Verbal	3
7.0	Estimation, Calculation, Conversion	Cognitive-Spatial Cognitive-Verbal	3

Scale Val.	Descriptors	Resource	New Val.
Auditory			
1.0	Detect/Register Sound (Detect Occurrence of Sound)	Auditory-Spatial	0
2.0	Orient to Sound (General Orientation/Attention)	Auditory-Spatial	1
4.2	Orient to Sound (Selective Orientation/Attention)	Auditory-Spatial	2
4.3	Verify Auditory Feedback (Detect Occurrence of Anticipated Sound)	Auditory-Verbal	2
4.9	Interpret Semantic Content (Speech)	Auditory-Verbal	2
6.6	Discriminate Sound Characteristics (Detect Auditory Differences)	Auditory-Spatial Auditory-Verbal	3
7.0	Interpret Sound Patterns (Pulse Rates, etc.)	Auditory-Verbal	3