

A Perspective of the HFESA

# Managing Work During the Pandemic



Pandemic management brings significant challenges to pivot operations; leverage technology; and remain agile, resilient, and connected at work. The psychosocial health and wellbeing of workers become heightened needs during such times. It is a significant challenge to imbue culture and brand identity of an organisation when workspaces and practices are widely distributed, and change is constant. Australian businesses, and those around the world, have been tested in an extreme manner during the COVID-19 pandemic. A work-from-anywhere phenomenon has taken precedence for most white-collar workers, and a work-with-exposure-risk contingency is the reality for several blue-collar and lower-income or casual workers, accentuating the gaps in social equity. International border closures and interstate or city-based lockdowns have meant that most businesses have had to operate in new ways and withstand curtailed sales or service delivery. Globally, this has translated into the largest financial crisis in a generation, with an economic contraction of more than four percent in 2020. 2, 3 There are fears expressed as social unrest and anxieties are arising from the perceived risks of infectious exposure as well as the possible complications from vaccination. 4

Those most susceptible to the virus and its adverse effects are the elderly or those with medical complications and comorbidities.<sup>5</sup> However, there are ongoing exposure risks for the workers deemed to be authorised<sup>6</sup> or essential. The effects of lockdown and geographic isolation are significant too, resulting in unemployment, under employment, or significant psychological duress. This phenomenon disproportionally affects vulnerable populations, such as women, 7,8 single parents, single-dwelling or dual-custody families, immigrants, the elderly, people subject to domestic abuse, people with disabilities, those in poverty, and members of lowersocioeconomic communities. 10 The labour market impacts of the pandemic have fallen inordinately on vulnerable workers who are engaged in precarious employment, affecting people who were typically less likely to report job satisfaction yet have more dependency on their work<sup>11</sup> than their more affluent professional counterparts in the community. That said, the health and wellbeing of white-collar professional workers has been a concern to business and welfare services too. While some people benefit from the flexibility of an at-home or from-anywhere style of remote working, others are adversely affected by the isolation, lack of established routines, contracted opportunities for social relations or physical activity, blurred boundaries of home life (are we working from home or living at work?),12 and lack of appropriate, dedicated office working space. For organisations, short-term reports of pandemic productivity gains or the foreseeable opportunities for reduced overhead expenses may be misleading: what will be the effects of leave accruals and the reduced real-estate footprint when we have not yet managed the technological, psychosocial, and emotional support needs of our workers who have family care obligations or who may find themselves in a fractured living situation with the increasing constraints of housing availability?

# The Role of an Organisational Ergonomist

A human factors specialist and certified professional ergonomist specialising in organisational and psychosocial/neurological/cognitive ergonomics can help businesses address these difficult decisions, accommodations, opportunities, risks, and trade-offs. Job design is an essential part of these professional services and is a specialty of macro- (or "big picture" and "systems-thinking") ergonomics. 13 Effective job design can alleviate anxiety, duress, work dissatisfaction, and general psychosocial work hazards. 14,15, 16 We might have had some generalised awareness of essential workers comprised of those in urban utilities, health care, police, fire, waste management, agricultural, or food production services. However, when was it common to consider the grocery store retail assistant as an essential worker? Given the frenzied state of hoarding groceries that has occurred during the pandemic, driven by the fear of missing out, that categorisation of essential worker is now recognisable: that sales assistant had best be in place to sell the goods that we require. Yet what are the protections for this worker? A plastic sneeze shield around the register that dampens the acoustics and leads to users awkwardly leaning beneath, to the side, or above the shield, forgoing the physical barrier? And what consideration has been given to the demands for more work hours during times of low staff availability? This is just one example of the unique and contemporary in-demand worker role that could benefit from human-centred approaches to work and job design.

The human factors specialist and certified professional ergonomist can assist businesses analyse workload and design jobs for effective performance at different life stages. This can mitigate psychosocial hazards and construct better health and work performance.<sup>17</sup> There is an ongoing need for this type of examination during the pandemic and changing world of work. Workload analysis and job design requires:

- The analysis of tasks, including the time-based countable number and type of activities required:
- Assessment of worker perception of their workload <sup>18</sup> contrasted with that of others; <sup>19</sup>
- Analysis of perception of "what is" versus "what should be" or "what can be imagined" for improved capability;
- Assessment of work satisfaction and work-related psychological symptoms;<sup>20</sup>
- Evaluation of acute and cumulative risk factors for work-related mental health disorders (WMHDs); and
- Examination of the lag indicators of job dissatisfaction, such as turn-over or employee absenteeism, for example.

There are important contributions that can be made from the expertise and practices of organisational ergonomics to help business, industry, government, and public health needs if leveraged, including:

- Knowing the sources of truth deciphering the information to determine what is wellevidenced and propped by science
- Helping to identify vulnerable workers and define essential workers while developing protective health strategies to support these workers and their work systems
- Workload analysis; psychosocial work factor identification; risk analysis, evaluation, and intervention planning; and effective job design
- Facilitating an effective return-to-work strategy for workers transitioning from at-home or from-anywhere workspace to a designated and dedicated shared geographic workspace<sup>21</sup>
- Helping organisations determine design strategies to reduce the risk of infection transmission in the workplace<sup>22</sup> or among employees with work-from-anywhere arrangements
- Supporting organisations to design education and support programs for workers who have been infected, possibly been a source of exposure, or whose friends or family members have been infected, accompanied by the sensitivity training that may be required for their workmates
- Purpose-place-and-space analysis to determine the best strategies to protect and promote health and wellbeing at work and in-transit to work, including the interface with other businesses in multi-use complexes, or 'shared leadership' in the ecosystem of work relations<sup>23</sup>
- Facilitating the design of pandemic-specific call centres to support first-responders<sup>24</sup>
- Supporting the adoption of new technologies and the interface of new technologies for technology-enhanced work design<sup>25</sup> (everything from the webinar meeting technology to those which augment, model, simulate, virtually create, or animate our activities)
- Developing systems for transparent and complex decision making and disclosures, using multi-criteria methods, helping to determine actions against trade-offs
- Determining health and wellbeing consequences of work design strategies
- Addressing gender inequities<sup>26</sup>
- Examining and leveraging opportunities that present when the design of work might change
- Administering effective communication methods to the right audience in need (Case in point: the pandemic and public health messages in New South Wales to their public could likely have been delivered differently to those communities where literacy was lower<sup>27</sup>)
- Facilitating situational leadership strategies and examining how that might shift during remote and distributed work arrangements
- Supporting continuous iteration, learning, and innovation by promoting reflection activities and learning teams so that the effects of changes are constructively captured, and growth opportunities can arise
- Championing workplaces to develop and implement evidence-based well-being strategies
  that are tailored to the needs of managers and staff; they should be useful, manageable,
  meaningful, and sustainable.

To connect with a certified professional ergonomist, contact HFESA: https://www.ergonomics.org.au/

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#### **REFERENCES**

- <sup>1</sup> Cotofan, M., De Neve, J-E., Golin, M., Kaats, M., & Ward, G. (2021). Chapter 7: Work and well-being during COVID-19: Impact, inequities, resilience, and the future of work. World Happiness Report 2021. <a href="https://happiness-report.s3.amazonaws.com/2021/WHR+21">https://happiness-report.s3.amazonaws.com/2021/WHR+21</a> Ch7.pdf (accessed 14 July 2021).
- <sup>2</sup> International Money Fund (June, 2020). World Economic Outlook Update: A Crisis Like No Other, An Uncertain Recovery. <a href="https://www.imf.org/en/Publications/WEO/Issues/2020/06/24/WEOUpdateJune2020">https://www.imf.org/en/Publications/WEO/Issues/2020/06/24/WEOUpdateJune2020</a> (accessed 14 July 2021).
- <sup>3</sup> The World Bank (5 January 2021). Global Economy to Expand by 4% in 2021; Vaccine Deployment and Investment Key to Sustaining the Recovery.
- <sup>4</sup> Griffiths, D., Sheehan, L., van Vreden, C., Whiteford, P., & Collie, A. (2021). Returning to the workplace during the COVID-19 pandemic: The concerns of Australian workers. Journal of Occupational Rehabilitation https://doi.org/10.1007/s10926-021-09990-7
- <sup>5</sup> Shaw, W.S., Main, C.J., Findley, P.A., Collie, A., Kristman, V. L., & Gross, D. P. (2020). Opening the workplace after COVID-19: What lessons can be learned from return-to-work research? Journal of Occupational Rehabilitation. 30, 299 302. https://doi.org/10.1007/s10926-020-09908-9
- <sup>6</sup> NSW Government (18 July 2021). Authorised Workers. Accessed 20 July 2021. <a href="https://www.nsw.gov.au/covid-19/rules/authorised-workers">https://www.nsw.gov.au/covid-19/rules/authorised-workers</a>
- <sup>7</sup> Nidhi Sharma & Hina Vaish (2020) Impact of COVID 19 on mental health and physical load on women professionals: an online cross-sectional survey, Health Care for Women International, 41:11-12, 1255-1272, DOI: 10.1080/07399332.2020.1825441
- <sup>8</sup> Almeida, M., Shrestha, A. D., Stojanac, D., & Miller, L. J. (2020). The impact of the COVID-19 pandemic on women's mental health. Archives of women's mental health, 23(6), 741–748. https://doi.org/10.1007/s00737-020-01092-2
- <sup>9</sup> Almeida, M., Shrestha, A. D., Stojanac, D., & Miller, L. J. (2020). The impact of the COVID-19 pandemic on women's mental health. Archives of women's mental health, 23(6), 741–748. https://doi.org/10.1007/s00737-020-01092-2
- <sup>10</sup> Cotofan, M., De Neve, J-E., Golin, M., Kaats, M., & Ward, G. (2021). Chapter 7: Work and well-being during COVID-19: Impact, inequities, resilience, and the future of work. World Happiness Report 2021. https://happiness-report.s3.amazonaws.com/2021/WHR+21\_Ch7.pdf (accessed 14 July 2021).
- <sup>11</sup> De Neve, J. E., & Oswald, A. J. (2012). Estimating the influence of life satisfaction and positive affect on later income using sibling fixed effects. *Proceedings of the National Academy of Sciences, 109*(49), 19953-19958.
- <sup>12</sup> Pazell, S. (2021). Work-from-Anywhere: When we Live at Work (Versus Work From Home) Position Paper. ViVA health at work.
- <sup>13</sup> Karanikas N., Pazell S., Wright A., Crawford E. (2021) The What, Why and How of Good Work Design: The Perspective of the Human Factors and Ergonomics Society of Australia. In: Rebelo F. (eds) Advances in Ergonomics in Design. AHFE 2021. Lecture Notes in Networks and Systems, vol 261. Springer, Cham. https://doi.org/10.1007/978-3-030-79760-7 108
- <sup>14</sup> Inegbedion, H., Inegbedion, E., Peter, A., & Harry, L. (2020). Perception of workload balance and employee job satisfaction in work organisations. Heliyon, 6, . doi: <u>10.1016/j.heliyon.2020.e03160</u>
- <sup>15</sup> Law, R., Dollard, M. F., Tuckey, M.R., & Dormann, C. (2011). Psychosocial safety climate as a lead indicator of workplace bullying and harassment, job resources, psychological health and employee engagement. Accident Analysis Preview, 43(5), 1782-1793. doi:10.1016/j.aap.2011.04.010
- <sup>16</sup> Twin, J., Costa, B., Taylor, F., & de Silva, A. (2018). Workload Management: An Implementation Guide. Institute for Safety, Compensation, and Recovery Research.
- http://research.iscrr.com.au/ data/assets/pdf\_file/0016/2300902/207\_REP\_IG\_G01-Workload-Management-Implementation-Guide-2018-04-09.pdf (accessed 21 July 2021).
- <sup>17</sup> Maritz, A. (2020). A multi-disciplinary business approach to covid-19: La Trobe business school perspectives. International Journal of Organisational Innovation, 13(1), *45-62*
- <sup>18</sup> Becker, A.B., Warm J.S., Dember, W.N., & Hancock, P.A. (1991). Effects of feedback on Perceived Workload in Vigilance Performance. Proceedings of the Human Factors Society Annual Meeting, 35(20), 1491-1494. doi:10.1177/154193129103502015
- <sup>19</sup> Inegbedion, H., Inegbedion, E., Peter, A., & Harry, L. (2020). Perception of workload balance and employee job satisfaction in work organisations. Heliyon, 6, . doi: <u>10.1016/j.heliyon.2020.e03160</u>

- <sup>20</sup> López-Núñez, M., Rubio-Valdehita, S., Díaz-Ramiro, E., & Aparicio-García, M. (2020). Psychological Capital, Workload, and Burnout: What's New? The Impact of Personal Accomplishment to Promote Sustainable Working Conditions. *Sustainability*, *12*, 8124.
- <sup>21</sup> Shaw, W.S., Main, C.J., Findley, P.A., Collie, A., Kristman, V. L., & Gross, D. P. (2020). Opening the workplace after COVID-19: What lessons can be learned from return-to-work research? Journal of Occupational Rehabilitation. 30, 299 302. https://doi.org/10.1007/s10926-020-09908-9
- <sup>22</sup> Griffiths, D., Sheehan, L., van Vreden, C., Whiteford, P., & Collie, A. (2021). Returning to the workplace during the COVID-19 pandemic: The concerns of Australian workers. Journal of Occupational Rehabilitation https://doi.org/10.1007/s10926-021-09990-7
- <sup>23</sup> Maritz, A. (2020). A multi-disciplinary business approach to covid-19: La Trobe business school perspectives. International Journal of Organisational Innovation, 13(1), 45-62
- <sup>24</sup> Bitan, Y., Abramovich, I., & Jaffe, E. (2021). Designing a first responders call center for a Pandemic. Ergonomics in Design, 29(1), 25–28. <a href="https://doi.org/10.1177/1064804620947615">https://doi.org/10.1177/1064804620947615</a>
- <sup>25</sup> Howe, J., Parker, S. H., Wiggermann, N., & Zagarese, V. (2021). The role of health care human factors in responding to COVID-19: Findings from an industry survey. Ergonomics in Design, 29(1), 29–32. https://doi.org/10.1177/1064804620971471
- <sup>26</sup> Oakman, J., Kinsman, N., Stuckey, R., Graham, M. & Weale, V. (2020). A rapid review of mental and physical health effects of working at home: how do we optimise health? BMC Public Health, 20(1825), 1-13.
- <sup>27</sup> McCaffery, K. J., Dodd, R. H., Cvejic, E., Ayrek, J., Batcup, C., Isautier, J. M., Copp, T., Bonner, C., Pickles, K., Nickel, B., Dakin, T., Cornell, S., & Wolf, M. S. (2020). Health literacy and disparities in COVID-19-related knowledge, attitudes, beliefs, and behaviours in Australia. *Public health research & practice*, *30*(4), 30342012. https://doi.org/10.17061/phrp30342012