

HUBUNGAN KARAKTERISTIK INDIVIDU, KARAKTERISTIK PEKERJAAN, DAN KELELAHAN KERJA DENGAN *SAFETY BEHAVIOUR* OPERATOR *DUMP TRUCK* PERTAMBANGAN BATU BARA PT X TAHUN 2026

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Abstrak

Latar belakang: *Safety behaviour* merupakan aspek penting dalam pengendalian risiko kecelakaan pada industri pertambangan, khususnya pada operator *Dump Truck* yang bekerja dengan alat berat, kondisi jalan tambang dinamis, dan tekanan operasional tinggi. **Tujuan:** Penelitian ini bertujuan untuk mengetahui hubungan antara karakteristik individu, karakteristik pekerjaan, dan tingkat kelelahan kerja terhadap *safety behaviour* operator *Dump Truck* di PT X tahun 2026. **Metode:** Penelitian ini menggunakan desain kuantitatif *cross-sectional* dengan teknik *total sampling* pada 80 operator *Dump Truck*. Data dikumpulkan menggunakan kuesioner *Safety Behaviour Scale*, NASA-TLX, dan *Occupational Fatigue Exhaustion and Recovery Scale* (OFER). Analisis data dilakukan secara univariat, bivariat menggunakan uji *Chi-square* atau *Fisher*, serta multivariat menggunakan regresi logistik berganda. **Hasil:** Mayoritas operator memiliki *safety behaviour* tinggi sebanyak 49 responden (61,3%), sedangkan 31 responden (38,8%) berada pada kategori rendah. Hasil analisis bivariat menunjukkan terdapat hubungan signifikan antara usia ($p=0,025$), lama masa kerja ($p=0,039$), dan beban kerja ($p=0,002$) dengan *safety behaviour*. Sementara itu, tingkat pendidikan ($p=0,644$), shift kerja ($p=1,000$), dan tingkat kelelahan kerja ($p=0,684$) tidak menunjukkan hubungan yang signifikan dengan *safety behaviour*. Variabel yang paling dominan adalah beban kerja, dengan *adjusted* POR sebesar 6,623. **Kesimpulan:** Karakteristik individu dan karakteristik pekerjaan, khususnya usia, lama masa kerja, dan beban kerja, berhubungan dengan *safety behaviour* operator *Dump Truck* di PT X. Perusahaan disarankan memperkuat serta melanjutkan inspeksi perilaku kerja aman, *coaching* bagi operator usia muda, *refreshment* K3 bagi operator masa kerja lama, serta pengawasan pada pekerjaan yang dianggap ringan atau rutin.

Kata Kunci:

Beban Kerja, Kelelahan Kerja, Operator *Dump Truck*, Pertambangan Batu Bara, *Safety Behaviour*

THE RELATIONSHIP BETWEEN INDIVIDUAL CHARACTERISTICS, JOB CHARACTERISTICS, AND *WORK* FATIGUE WITH THE SAFETY BEHAVIOR OF DUMP TRUCK OPERATORS AT PT X COAL MINING IN 2026

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Abstract

Background: Safety behaviour is an important aspect in controlling occupational accident risks in the mining industry, particularly among Dump Truck operators who work with heavy equipment, dynamic hauling road conditions, and high operational demands. **Objective:** This study aimed to determine the relationship between individual characteristics, job characteristics, and work fatigue with safety behaviour among Dump Truck operators at PT X in 2026. **Methods:** This study used a quantitative cross-sectional design with a total sampling technique involving 80 Dump Truck operators. Data were collected using the Safety Behaviour Scale, NASA-TLX, and the Occupational Fatigue Exhaustion and Recovery Scale (OFER). Data were analyzed using univariate analysis, bivariate analysis with Chi-square or Fisher's exact test, and multivariate analysis using multiple logistic regression. **Results:** Most operators had high safety behaviour, with 49 respondents (61.3%), while 31 respondents (38.8%) were categorized as having low safety behaviour. The bivariate analysis showed significant relationships between age ($p=0.025$), length of service ($p=0.039$), and workload ($p=0.002$) with safety behaviour. Meanwhile, education level ($p=0.644$), work shift ($p=1.000$), and work fatigue ($p=0.684$) were not significantly associated with safety behaviour. The final multivariate model showed that age, length of service, and workload remained significantly associated with low safety behaviour. Workload was the most dominant variabel, with an adjusted POR of 6.623. **Conclusion:** Individual and job characteristics, particularly age, length of service, and workload, were associated with safety behaviour among Dump Truck operators at PT X. The company is advised to strengthen safety behaviour inspections, provide coaching for younger operators, conduct safety refreshment programs for long-tenured operators, and improve supervision of tasks perceived as light or routine.

Keyword :

Dump Truck Operators, Coal Mining, Safety Behaviour, Workload, Work Fatigue