TLIF0013 Manage the impact of human capabilities/limitations on human performance in a rail environment

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Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to manage the impact of human capabilities and limitations on human performance in a rail environment.

It includes describing human error and error management and identifying factors that impact on human performance. It also includes identifying methods of creating work environments that support human performances.

This unit is intended for people who manage rail safety workers, to assist them in applying human factors principles to the management of safety critical tasks and the work environment to improve safety and performance.

For this unit human factors is defined as the scientific discipline that is concerned with the application of information about human characteristics, capacities, and limitations to the design of tasks, equipment and work environments.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

F – Safety Management

Unit Sector

Rail Sector.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential	Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1	**Describe human error and error management**	**1.1**	Differences between errors and violations are identified
		1.2	Factors contributing to errors are identified
		1.3	Principles for error prevention, reduction, detection, recovery and tolerance are described
		1.4	Factors contributing to violations are identified
		1.5	Fair and just culture principles are described
2	**Identify factors that impact on human performance**	**2.1**	Individual capabilities and limitations that impact on human performance are identified
		2.2	Factors relating to the organisation and wider system that impact on human performance are identified
		2.3	Factors relating to interaction with others that impact on human performance are identified
		2.4	Factors relating to how the design and operation of plant, equipment and technology can impact on human performance are identified
		2.5	Factors relating to rules and procedures that impact on human performance are identified
		2.6	Factors relating to work environment that impact on human performance are identified
3	**Identify methods for creating work environments that support human performance**	**3.1**	Principles of human-centred design are described
		3.2	Strategies and methods for creating work environments and systems of work that reduce the potential for errors and improve human performance are identified
		3.3	Circumstances where human factors expertise is required are identified
		3.4	Benefits of applying human factors knowledge are described

3.5 Human factors compliance requirements are identified in accordance with relevant safety management systems

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851