



Sustainable Minerals Institute

INTRODUCTION TO HUMAN FACTORS AND HUMAN-CENTRED DESIGN IN MINING

Introduction to Human Factors and Human-Centred Design in Mining gives participants a broad overview of the field of human factors as it relates to mining. The course fosters an understanding of the benefits that human factors approaches can offer mining companies, including improvements in safety and productivity.

The course is designed for people who are not human factors specialists, but whose work could benefit from greater awareness of human factors considerations, issues, and approaches. This potentially includes anyone in the mining industry or regulatory authorities whose work includes any of the following:

- supervising, managing, or overseeing workers involved in hazardous operations
- identifying or addressing workplace hazards
- investigating workplace incidents.
- providing safety advice
- involvement in equipment procurement processes

The course was developed and is led by experienced human factors researchers and practitioners from the Minerals Industry Safety and Health Centre (MISHC) at The University of Queensland's Sustainable Minerals Institute.

This course will equip participants to:

- understand key *human factors* considerations relevant to the design, operation and maintenance of mining equipment, and their implications for safety and productivity
- appreciate the contribution that human-centred design can make at all stages of the equipment life cycle, from procurement through to disposal
- identify potential human factors issues in the workplace that may warrant investigation or escalation
- participate effectively in human-centred design activities
- make better procurement decisions by considering the right issues and asking suppliers the right questions
- understand the human aspects of automation



Key Benefits

- Improve knowledge of human factors considerations relevant to your organisation
- Understand how human factors approaches can increase safety and productivity
- Be better equipped to contribute to human-centred design activities
- Identify opportunities for improvement in your organisation

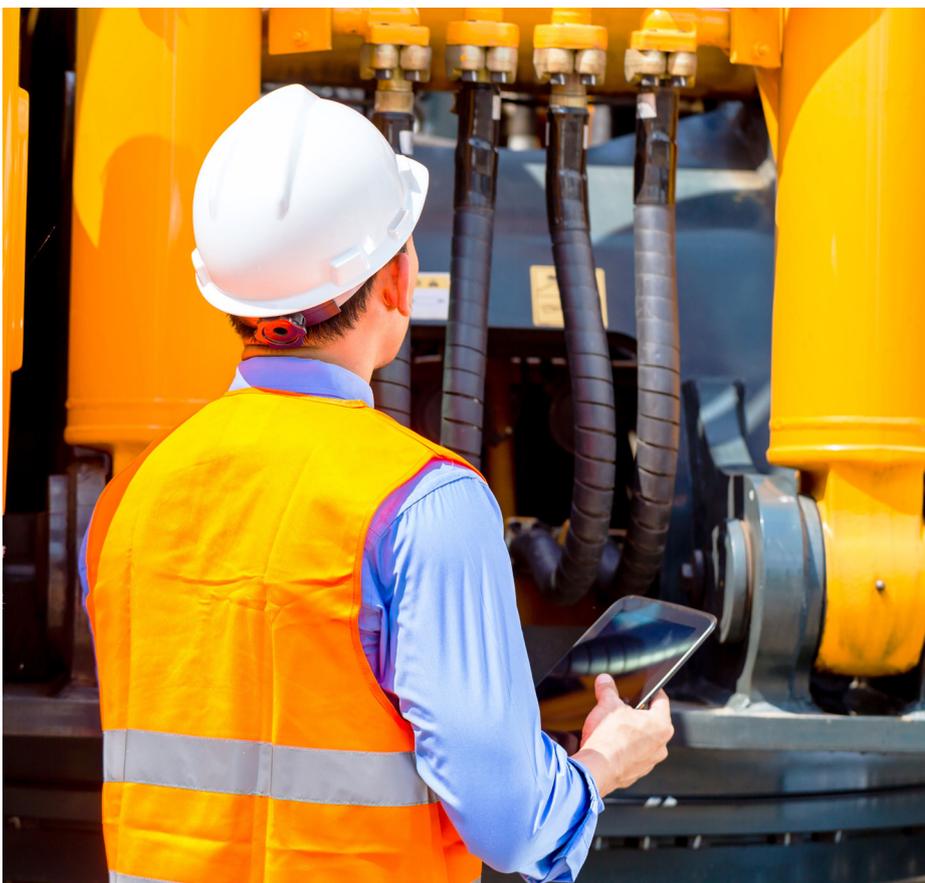
The Course Features

The course focuses on the contributions that human factors knowledge and approaches can make to optimising:

- Mining equipment design
- Mining equipment operations and maintenance
- Manual tasks
- Equipment design for diversity
- The work environment
- Controls and displays

- Organisational and task factors
- Skills training
- The human aspects of automation and new technologies

Seminars will address each of these topics, providing evidence-based insights and real-world examples.



Course delivery

This is a four-day intensive course plus additional independent work towards assessment items. Participants will be required to complete two assessment items to demonstrate adequate understanding of the course material.

Cost

\$3,200 (excluding GST). Bulk discounts may apply for group applications.

Venue

The Introduction to Human Factors and Human-Centred Design in Mining course is delivered face to face at the Sustainable Minerals Institute, The University of Queensland, St Lucia

Minimum numbers

Please note that a minimum of 10 enrolments are required for this course to go ahead as scheduled.



CRICOS Provider Number 00025B

For further details, please contact:

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