Course Title:	**Evidence Based Decision-Making in Applied Human Performance**
Course Code:	**ONSPMG901**
Descriptor Start Date:	**01/01/2026**

POINTS:	**30.00**
LEVEL:	**9**
PREREQUISITE/S:	**None**
COREQUISITE/S:	**None**
RESTRICTION/S:	

LEARNING HOURS

Hours may include lectures, tutorials, online forums, laboratories. Refer to your timetable and course information in Canvas for detailed information.

Total learning hours: 300

PRESCRIPTOR

This course develops students' capacity to integrate performance technologies, data, and practitioner insight to support timely, evidence-based decisions in applied human performance environments. Emphasising both strategic and real-time decision-making, students will critically engage with tools such as artificial intelligence, predictive modelling, and context-aware systems. Applications span sport, military, emergency response, and expedition environments, with a focus on innovation, contextual intelligence, and culturally responsive, human-centred decision-making.

LEARNING OUTCOMES

1. Critically evaluate and apply data from diverse sources to enable insightful evidence-based decisions in human performance environments.
2. Use advanced knowledge of artificial intelligence, predictive modelling, and context-aware systems to create culturally responsive, human-centred decisions in real-world environments.
3. Critically reflect on knowledge of data sovereignty with respect to Maori and other Indigenous knowledge cultures.

CONTENT

1. Foundations of Evidence-Based Decision-Making:
   a. Strategy vs. execution: when and how decisions matter
   b. Models of decision-making: bounded rationality, intuition, OODA loop

2. Data Literacy and Technology Awareness:
   a. Understanding data types and sources in applied settings (wearables, video, etc.)
   b. Misconceptions about analytics: correlation ? causation, overfitting, ignoring context
   c. Tool focus: Data dashboards, athlete monitoring platforms, automated reporting systems

3. Visualising and Communicating Data:
   a. Principles of visual communication: clarity, context, cognition
   b. From raw to actionable: designing meaningful data stories
   c. Tools: Tableau, Power BI, R/Shiny dashboards, Excel hacks, custom APIs

4. AI, Machine Learning, and Predictive Modelling:
   a. What AI can and can't do: automation vs. interpretation
   b. Introduction to predictive modelling in human performance
   c. Tools: Python/AutoML, GPT-style interfaces, decision support systems

5. Balancing Analytics with Human Judgement:
   a. When the numbers lie: knowing when to trust your gut
   b. Embedding practitioner experience into digital systems
   c. Bias, error, and ethical issues in data-informed decision-making

6. Culturally Responsive and Context-Aware Decision-Making:
   a. Interpreting data through Maori and Indigenous frameworks
   b. Evaluating technologies in diverse environments: cultural, contextual, and relational intelligence
   c. Frameworks: He Awa Whiria (braided rivers model), Te Whare Tapa Wha

LEARNING & TEACHING STRATEGIES

Teaching will include online activities and self-directed learning

ASSESSMENT PLAN

Assessment Event	Weighting %	Learning Outcomes
Data Literacy and Visualisation Task	30.00	1, 2
AI-Aided Decision Strategy Report	40.00	1, 2
Culturally Responsive Data Interpretation Reflection	30.00	1, 3

Grade Map **MAP1**

A+ A A- Pass with Distinction
B+ B B- Pass with Merit
C+ C C- Pass
D Fail

Overall requirement/s to pass the course:

Disclaimer: Course descriptors may be amended between teaching periods/semesters

LEARNING RESOURCES

Will be provided via Canvas.

For further information, contact: AUT Online Team

Principal Programme:	**ON1095, Master of Human Performance Leadership**
Related Programme/s:	**None**