



# Transcranial Magnetic Stimulation Theory & Practice

DELIVERED QUARTERLY AS UWA MICROCREDENTIALS

**TMS is a non-invasive brain stimulation technique to treat depression and other psychiatric disorders. This course aims to teach the theory and practice of rTMS to health professionals and researchers who wish to apply TMS in their clinics and/or research.**

The theoretical component introduces fundamentals of neuroscience, provides critical review of the clinical literature and offers an up-to-date summary of cutting edge research in the field. Lectures will cover special topics that may include areas such as paediatric neuromodulation, technological advances etc.

The practical component provides hands on training on state-of-the-art rTMS devices with assisted neuronavigation technology, using multiple stations to teach key practical skills. The training involves ongoing formative assessment, feedback and evaluation by experienced health practitioners.

The course is facilitated by leading WA experts in neurostimulation from academia as well as the healthcare sector and will include contributors from UWA, Murdoch University, Sir Charles Gairdner Hospital, Modalis, Perth Clinic and the Perron Institute for Neurological and Translational Science.

## TOPICS INCLUDE

- Treatment of mood disorders
- Side effects and safety
- TMS in other psychiatric disorders
- Clinical case presentations
- Hands-on training of TMS procedures

## ENDORSEMENT

'*Transcranial Magnetic Stimulation (TMS) Theory and Practice*'

This course has been endorsed by the RANZCP as CPD activity code: ED000061, and each hour of participation can be claimed under Accredited Group Learning Activity (Section 4.1).

## LEARNING OUTCOMES

### Theory

- Understand the neurobiological principles of rTMS
- Apply knowledge of evidence and safety base of rTMS to treatment of patients, including special populations, disease-specific conditions and complications

### Practice

- Evaluate safety and risk
- Find the motor cortex hotspot and the resting and active motor thresholds
- Operate a rTMS device to deliver treatment

## AUDIENCE

Most suited to psychiatrists, mental health nurses/professionals, and academic researchers but open to all allied health professionals.

## DURATION, FORMAT & COST

The course is run as a series of two Microcredentials through UWA, with a credentialing signoff following 10 hours of supervised practice.

### Module 1

#### **RTMSM501 Theory**

1 day \$550 incl. GST

Fully catered (University Club)

Online option available

### Module 2

#### **RTMSM502 Practical training**

1 day \$770 incl. GST

In person attendance required

### Signoff

#### **Supervised practice**

Duration and price vary

See overleaf for Module details.

## REGISTER

Scan the QR code below or email; [jennifer.rodger@uwa.edu.au](mailto:jennifer.rodger@uwa.edu.au)  
Cancellation fees apply.



## MORE INFORMATION

[jennifer.rodger@uwa.edu.au](mailto:jennifer.rodger@uwa.edu.au)  
[modalis.com.au](http://modalis.com.au)



# TMS Principles & Practice

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## Course Outline

### Accreditation and provision of TMS

Please note: From 1 May 2022, psychiatrists are required by RANZCP to complete a rTMS training course.

To complete the RANZCP endorsed course, psychiatrists must complete both microcredentials and 10 hours of supervised practice. The microcredentials can also be taken as stand alone units depending on your needs and past training or clinical experience.

#### MICROCREDENTIAL 1 RTMSM501

##### TMS Theory

**1 day, In person and  
Online formats available**

This course is suitable for clinicians and researchers who want to better understand TMS, covering the following topics:

- *TMS for the treatment of mood disorders*
- *TMS side effects and safety considerations*
- *Use of TMS in other psychiatric disorders*
- *Clinical case presentations*
- *TMS and other brain stimulation techniques*
- *TMS and cognition*
- *Regulatory and professional landscape*

*This module includes online assessments of content. Passing these assessments is a required component for accreditation.*

#### MICROCREDENTIAL 2 RTMSM502

##### TMS Practical Application

**1 day, 6 hours, In person**

Hands-on practical workshop delivered face-to-face covering:

- *RMT procedure*
- *Treatment procedure for depression*

Small groups (3 attendees per group) are trained (intensive hands-on training and practice) by expert clinicians and course demonstrators

in all aspects of technique, including:

- *RMT and/or treatment procedures*
- *Neuronavigation*
- *TMS machine operation and coil positioning*
- *Patient screening*

This module includes formal evaluation of relevant technique and skills. Passing this evaluation is a required component for accreditation

##### Supervised practice

**Location varies, 10 hours, Face-to-Face**

This final step required for formal accreditation involves 10 hours of supervised practice of an individual practitioner's methodology and technique on patient screening, RMT and/or treatment procedures in an established TMS clinical setting with expert practitioners providing final signoff.