



Independent Mobility: Adult Manual Wheelchair Technology for Function and Performance

COURSE DESCRIPTION:

A wheelchair user's function and risk of repetitive strain injury is largely dependent on the proper choice of technology, sizing and configuration of their manual wheelchair. This full day course interactively explores the science and technology of manual wheelchairs. This seminar is designed to provide clinically relevant concepts to anyone involved in the assessment and prescription of independent manual wheelchair technology. An overview of the science and biomechanics of manual wheelchairs will be explored considering concepts of propulsion, wheeling and rolling resistance. Time will be spent reviewing the assessment of the user and their environmental considerations, paying particular attention to postures, seating positions, stability and function. This course includes an in-depth exploration of the set-up and configuration of manual wheelchairs, as well as the opportunity for hands-on activities. Attendees will be taken through the critical considerations from assessment through prescription and set-up and will review documentation requirements. Documented case studies, interactive discussions, critical thinking and experiential activities will be utilized to illustrate learning objectives.

COURSE OBJECTIVES:

Upon completion of this full day program, participants will have an understanding of:

- The biomechanics of propulsion, wheeling and rolling.
- The assessment process for a manual wheelchair frame (including the mat assessment, wheeled mobility assessment and environmental considerations).
- Positioning, posture, stability and functioning in a manual wheelchair.
- Selection of technology, configuration and set-up of the manual wheelchair.
- How to document and justify this equipment for funding.

COURSE AGENDA:

- 08:30 – 09:15 Biomechanics of propulsion, wheeling & rolling resistance
- 09:15 – 10:15 Material Science- weight, Repetitive Strain injuries
- 10:15 – 10:30 Break
- 10:30 – 12:00 The adult manual wheelchair assessment
 - o Pelvic postures, seating positions and stability
 - o Mat assessment considerations and measuring
 - o Wheeled mobility assessment
 - o Environment assessment (home, transportation)
 - o Positioning for function
- 12:00 – 12:30 Lunch
- 12:30 – 02:30 Manual Wheelchair configuration and set-up
 - o Frame, back, leg-rests/footrests, armrests, wheels/tires, hand-rims and wheel-locks
- 02:30 – 02:45 Break
- 02:45 – 04:15 Configuration and set-up continued
 - Documentation and funding justification
 - Education necessary upon delivery
- 04:15 – 04:30 Questions

COURSE INSTRUCTION DETAILS

<p>COURSE AUDIENCE: DME Suppliers (ATPS), Clinicians (OTs, PTs, ATPs, COTAs PTAs, Nurses), Funding Personnel, Rehab</p> <p>COURSE LENGTH: 7 Contact Hours (Full Day)</p> <p>COURSE LEVEL: Intermediate to Advanced</p> <p>CEUS OFFERED: .7</p>	<p>Teaching Method Breakdown:</p> <p>ONSITE LECTURE: 50%</p> <p>HANDS ON: 50%</p> <p>WEBINAR: 0%</p>
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