

# Hydraulics Technology 1: Course Outline

Catalogue Number	8071-0010
Category	Fluid Motion
Duration	15 Hours
Software Supplied	HydraMotion simulation software

## Activity 1: Getting Started

## Activity 2: Pressure and Force

## Activity 3: Pressure Gauges

## Activity 4: Hydraulic Power Transmission – Part 1

## Activity 5: Activity 5: Hydraulic Power Transmission - Part 2

## Activity 6: Hydraulic Power Source

## Activity 7: Determining Component Characteristics

### Skill 7A: Component Characteristics

### Activity 7B: Graphing

## Activity 8: Controlling the Flow Rate

## Activity 9: Flow Control Valves

### Skill 9A: Sequential Cycles

### Activity 9B: Graphing

## Activity 10: 4/3 Closed-Center Valve - Construction

## Activity 11: 4/3 Closed-Center Valve - Characteristics

### Skill 11A: Closed Center Valves

### Activity 11B: Graphing

## Activity 12: Power Transformation Using a Double-Acting Cylinder

## Activity 13: Loading a Piston

## Activity 14: Controlling the Piston Location

### Skill 14A: Piston Location

## Activity 15: Conclusion