

## MQL5 vs MQL4 – Referencing Price and Indicator Data

Introducing “MQL5 vs MQL4”. This is a type of lecture where we explore the main differences between MQL5 and MQL4.

Today’s lecture focuses on 1) Getting bid and ask prices 2) Getting Open, High, Low and Close prices and 3) Getting Indicator (SMA) values

For those who have not coded in MQL4 before and are not interested in it, don’t worry about it and move right along to the next lecture.

### Getting Bid and Ask Prices

MQL5

```
double bidPrice = SymbolInfoDouble(_Symbol,SYMBOL_BID);
double askPrice = SymbolInfoDouble(_Symbol,SYMBOL_ASK);
```

MQL4

```
double bidPrice = Bid;
double askPrice = Ask;
```

### Getting Open, High, Low and Close Prices

MQL5

```
MqlRates PriceDataTable[];
ArraySetAsSeries(PriceDataTable,true);
int numberOfPriceDataPoints = CopyRates(_Symbol,0,0,2,PriceDataTable);

double openPriceShift1 = PriceDataTable[1].open; // Open price of shift 1
double highPriceShift1 = PriceDataTable[1].high; // High price of shift 1
double lowPriceShift1 = PriceDataTable[1].low; // Low price of shift 1
double closePriceShift1 = PriceDataTable[1].close; // Close price of shift 1
```

MQL4 (2 possible methods)

```
double openPriceShift1_method1 = Open[1]; // Open price of shift 1
double highPriceShift1_method1 = High[1]; // High price of shift 1
double lowPriceShift1_method1 = Low[1]; // Low price of shift 1
double closePriceShift1_method1 = Close[1]; // Close price of shift 1

// OR

double openPriceShift1_method2 = iOpen(Symbol(), 0, 1); // Open price of shift 1
double highPriceShift1_method2 = iHigh(Symbol(), 0, 1); // High price of shift 1
double lowPriceShift1_method2 = iLow(Symbol(), 0, 1); // Low price of shift 1
double closePriceShift1_method2 = iClose(Symbol(), 0, 1); // Close price of shift 1
```

## Getting Indicator data (SMA)

MQL5

```
double shortSmaData[];  
ArraySetAsSeries(shortSmaData,true);  
int shortSmaControlPanel = iMA(_Symbol, _Period, 14, 0, MODE_SMA, PRICE_CLOSE);  
int numberOfShortSmaData = CopyBuffer(shortSmaControlPanel, 0, 0, 2, shortSmaData);  
  
double sma14Shift1 = shortSmaData[1];
```

MQL4

```
double sma14Shift1 = iMA(Symbol(), 0, 14, 0, MODE_SMA, PRICE_CLOSE, 1);
```