

70-506

Microsoft

Microsoft Silverlight 4, Development

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Exam Name:	Microsoft Silverlight 4, Development		
Exam Type:	Microsoft	Exam Code:	70-506
Certification	Microsoft Certified Technology Specialist (MCTS)	Total Questions:	150

Question: 1.

You are developing a Silverlight 4 application.

The application defines the following three event handlers. (Line numbers are included for reference only.)

```

01 private void HandleCheck(object sender, RoutedEventArgs e)
02 {
03     MessageBox.Show("Checked");
04 }
05
06 private void HandleUnchecked(object sender, RoutedEventArgs e)
07 {
08     MessageBox.Show("Unchecked");
09 }
10
11 private void HandleThirdState(object sender, RoutedEventArgs e)
12 {
13     MessageBox.Show("Indeterminate");
14 }

```

You need to allow a check box that can be selected, cleared, or set to Indeterminate. You also need to ensure that the event handlers are invoked when the user changes the state of the control. Which XAML fragment should you use?

- A. `<CheckBox x:Name="cb2" Content="Three State CheckBox" IsChecked="True" Checked="Handle Check" Indeterminate = "Handle Unchecked" Unchecked = "Handle Unchecked" />`
- B. `<CheckBox x:Name="cb2" Content="Three State CheckBox" IsThreeState="True" Checked="HandleCheck" Indeterminate = "Handle Third State" Unchecked = "Handle Unchecked" />`
- C. `<CheckBox x:Name="cb2" Content="Three State Check Box" IsHitTestVisible = "True" Checked = "Handle Check" Indeterminate = "Handle Third State" Unchecked="HandleUnchecked" />`
- D. `<CheckBox x:Name="cb2" Content="Three State CheckBox" IsEnabled="True" Checked="Handle Check" Indeterminate = "Handle Unchecked" Unchecked = "Handle Unchecked" />`

Answer: B

Question: 2.

You are developing a Silverlight 4 application.

The application contains an XAML page that defines the following Grid control.

```

<Grid Name="gridBody" >
<Grid.RowDefinitions>
<RowDefinition />
<RowDefinition />
</Grid.RowDefinitions>
<TextBlock Text="Employee Info" />
<TextBlock Text="Please enter employee info" Grid.Row="1" Height="20"
VerticalAlignment="Top" />
<TextBox x:Name="EmpInfo" Grid.Row="1" Margin="0,25,0,0"
TextWrapping="Wrap" /></Grid>

```

The codebehind file for myPage.xaml contains the following code segment. (Line numbers are included for reference only.)

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```

01 public myPage()
02 {
03 InitializeComponent();
04
05 UserControl control = new MyCustomControl();
06
07 }

```

You need to replace the contents of the second row of gridBody with a user control of the MyCustomControl type. Which code segment should you insert at line 06?

- A. gridBody.Children.Insert(1, control);
- B. gridBody.RowDefinitions.Remove(gridBody.RowDefinitions[1]); gridBody.Children.Insert(1, control);
- C. gridBody.Children.Clear(); Grid.SetRow(control, 1); gridBody.Children.Add(control);
- D. List<UIElement> remove = gridBody.Children.Where(c => c is FrameworkElement && Grid.GetRow((FrameworkElement)c) == 1).ToList(); foreach (UIElement element in remove)
 - {
 - gridBody.Children.Remove(element);
 - }
 - Grid.SetRow(control, 1);
 - gridBody.Children.Add(control);

Answer: D

Question: 3.

You are developing a Silverlight 4 application. The application defines the following XAML fragment. (Line numbers are included for reference only.)

```

01 <ComboBox>
02 <ComboBoxItem Content="Item 1" />
03 <ComboBoxItem Content="Item 2" />
04 <ComboBoxItem Content="Item 3" />
05 </ComboBox> The codebehind
file contains the following code segment. (Line numbers are included for reference only.)
06 void PrintText(object sender, SelectionChangedEventArgs args){
07
08 MessageBox.Show( "You selected " + cbi.Content.ToString() + ".");
09 }

```

You need to ensure that when the user selects an item in a ComboBox control, the content of the item is displayed. What should you do?

- A. Replace the following XAML fragment at line 01. <ComboBox SelectionChanged="PrintText"> Add the following code segment at line 07.
 - ComboBoxItem cbi = ((sender as ComboBox).SelectedItem as ComboBoxItem);
- B. Replace the following XAML fragment at line 01. <ComboBox SelectionChanged="PrintText"> Add the following code segment at line 07.
 - ComboBoxItem cbi = ((sender as ComboBox).SelectedIndex as ComboBoxItem);
- C. Replace the following XAML fragment at line 01. <ComboBox DropDownClosed="PrintText"> Add the following code segment at line 07.
 - ComboBoxItem cbi = ((sender as ComboBox).SelectedItem as ComboBoxItem);
- D. Replace the following XAML fragment at line 01. <ComboBox DropDownClosed="PrintText"> Add the following code segment at line 07.
 - ComboBoxItem cbi = ((sender as ComboBox).SelectedIndex as ComboBoxItem);

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Answer: A

Question: 4.

You are developing a Silverlight 4 application.

You have a collection named ColPeople of the List<Person> type. You define the Person class according to the following code segment.

```
public class Person
{
    public string Name { get; set; }
    public string Description { get; set; } public string Gender { get; set; } public int Age {
    get; set; }
    public int Weight { get; set; }
}
```

You need to bind ColPeople to a ComboBox so that only the Name property is displayed. Which XAML fragment should you use?

- A. <ComboBox DataContext="{Binding ColPeople}" ItemsSource="{Binding ColPeople}" DisplayMemberPath="Name" />
- B. <ComboBox DataContext="{Binding Person}" ItemsSource="{Binding Person}" DisplayMemberPath="ColPeople" />
- C. <ComboBox DataContext="{Binding ColPeople}" DisplayMemberPath="Name" />
- D. <ComboBox DataContext="{Binding Person}" />

Answer: A

Question: 5.

You are developing a Silverlight 4 application. You define an Invoice object according to the following code segment. Public class Invoice

```
{
    public int InvoiceId { get; set; } public double Amount { get; set; } public Supplier
    Supplier { get; set; }
    public DateTime InvoiceDate { get; set; } public DateTime PayDate { get; set; } public
    string InvoiceDescription { get; set; }
}
```

You need to display a list of invoices that have the following properties displayed on each line: I

nvoiceId, Amount, and InvoiceDate. Which XAML fragment should you use?

- A. <ListBox x:Name="InvoiceListBox">
 <StackPanel Orientation="Horizontal">
 <TextBlock Text="{Binding Path=InvoiceId}" />
 <TextBlock Text="{Binding Path=Amount}" />
 <TextBlock Text="{Binding Path=InvoiceDate}" />
 </StackPanel>
 </ListBox>
- B. <ListBox x:Name="InvoiceListBox">
 <StackPanel Orientation="Horizontal">
 <ListBoxItem>
 <TextBlock Text="{Binding Path=InvoiceId}" />
 </ListBoxItem>
 <ListBoxItem>
 <TextBlock Text="{Binding Path=Amount}" />
 </ListBoxItem>
 <ListBoxItem>
 <TextBlock Text="{Binding Path=Amount}" />
 </ListBoxItem>
 </StackPanel>
 </ListBox>

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- ```

 <TextBlock Text="{Binding Path=InvoiceDate}" />
 </ListBoxItem>
</StackPanel>
</ListBox>
C. <ListBox x:Name="InvoiceListBox">
 <ListBox.Items>
 <ItemsPanelTemplate>
 <StackPanel Orientation="Horizontal">
 <TextBlock Text="{Binding Path=InvoiceId}" />
 <TextBlock Text="{Binding Path=Amount}" />
 <TextBlock Text="{Binding Path=InvoiceDate}" />
 </StackPanel>
 </ItemsPanelTemplate>
 </ListBox.Items>
</ListBox>
D. <ListBox x:Name="InvoiceListBox">
 <ListBox.ItemTemplate>
 <DataTemplate>
 <StackPanel Orientation="Horizontal">
 <TextBlock Text="{Binding Path=InvoiceId}" />
 <TextBlock Text="{Binding Path=Amount}" />
 <TextBlock Text="{Binding Path=InvoiceDate}" />
 </StackPanel>
 </DataTemplate>
</ListBox.ItemTemplate>
</ListBox>

```

**Answer: D**

**Question: 6.**

You are developing a Silverlight 4 application. You define the visual behavior of a custom control in the ControlTemplate by defining a VisualState object named Selected. You need to change the visual state of the custom control to the selected state. Which code segment or XAML fragment should you use?

- A. VisualStateManager.GoToState( this, "Selected", true );
- B. <VisualTransition To="Selected">  
 <Storyboard>  
 </Storyboard>  
 </VisualTransition>
- C. <VisualTransition From="Selected">  
 <Storyboard>  
 </Storyboard>  
 </VisualTransition>
- D. public static readonly DependencyProperty SelectedProperty =  
 DependencyProperty.Register("Selected", typeof(VisualState), typeof(MyControl), null);  
 public VisualState Selected  
 {  
 get { return (VisualState)GetValue(SelectedProperty); }  
 set { SetValue(SelectedProperty, value); }  
 }

**Answer: A**

|                      |                                                         |                         |               |
|----------------------|---------------------------------------------------------|-------------------------|---------------|
| <b>Exam Name:</b>    | <b>Microsoft Silverlight 4, Development</b>             |                         |               |
| <b>Exam Type:</b>    | <b>Microsoft</b>                                        | <b>Exam Code:</b>       | <b>70-506</b> |
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**Question: 7.**

You are developing an application by using Silverlight 4 and Microsoft .NET Framework 4. You create a new user control in the application. You add the following XAML fragment to the control.

```
<StackPanel KeyDown="App_KeyDown" Orientation="Vertical">
<TextBox x:Name="firstName" />
<TextBox x:Name="lastName" />
<TextBox x:Name="address" />
</StackPanel>
```

You add the following code segment in the code behind file of the control. (Line numbers are included for reference only.)

```
01 private void App_KeyDown(object sender, KeyEventArgs e)
02 {
03
04 }
05
06 private void FirstAndLastNameKeyDown()
07 {
08 ...
09 }
```

You need to ensure that the First And LastName KeyDown method is invoked when a key is pressed while the focus is on the firstName or lastName TextBox controls. You also need to ensure that the default behavior of the controls remains unchanged.

Which code segment should you add at line 03?

- A. 

```
if (((FrameworkElement)sender).Name == "firstName" ||
((FrameworkElement)sender).Name == "lastName")
{
FirstAndLastNameKeyDown();
}
e.Handled = false;
```
- B. 

```
if (((FrameworkElement)sender).Name == "firstName" ||
((FrameworkElement)sender).Name == "lastName")
{
FirstAndLastNameKeyDown();
}
e.Handled = true;
```
- C. 

```
if (((FrameworkElement)e.OriginalSource).Name == "firstName" ||
((FrameworkElement)e.OriginalSource).Name == "lastName")
{
FirstAndLastNameKeyDown();
}
e.Handled = false;
```
- D. 

```
if (((FrameworkElement)e.OriginalSource).Name == "firstName" ||
((FrameworkElement)e.OriginalSource).Name == "lastName")
{
FirstAndLastNameKeyDown();
}
e.Handled = true;
```

**Answer: C**

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**Question: 8.**

You are developing an application by using Silverlight 4 and Microsoft .NET Framework 4. The application has a TextBox control named txtName. You need to handle the event when txtName has the focus and the user presses the F2 key. Which two actions should you perform? (Each correct answer presents part of the solution. Choose two.)

- A. txtName.KeyDown += new KeyEventHandler(txtName\_KeyDown);
- B. txtName.LostFocus += new RoutedEventHandler(txtName\_LostFocus);
- C. txtName.TextChanged += new TextChangedEventHandler(txtName\_TextChanged);
- D. void txtName\_TextChanged(object sender, TextChangedEventArgs e)
 

```
{
 if ((Key)e.OriginalSource == Key.F2)
 {
 //Custom logic
 }
}
```
- E. void txtName\_KeyDown(object sender, KeyEventArgs e)
 

```
{
 if (e.Key == Key.F2)
 {
 //Custom logic
 }
}
```
- F. void txtName\_LostFocus(object sender, RoutedEventArgs e)
 

```
{
 if ((Key)e.OriginalSource == Key.F2)
 {
 //Custom logic
 }
}
```

**Answer: AE**

**Question: 9.**

You are developing an application by using Silverlight 4 and Microsoft .NET Framework 4. The application contains the following XAML fragment.

```
<TextBlock x:Name="QuoteOfTheDay" />
```

The application calls a Windows Communication Foundation (WCF) service named MyService that returns

the quote of the day and assigns it to the QuoteOfTheDay TextBlock.

The application contains the following code segment. (Line numbers are included for reference only.)

```
01 var client = new MyService.MyServiceClient();
02 client.GetQuoteOfTheDayCompleted += (s, args) => QuoteOfTheDay.Text =
args.Result;
03 client.GetQuoteOfTheDayAsync();
```

You need to handle errors that might occur as a result of the service call. You also need to provide a default value of "Unavailable" when an error occurs.

Which code segment should you replace at lines 02 and 03?

- A. QuoteOfTheDay.Text = "Unavailable";
 

```
client.GetQuoteOfTheDayCompleted += (s, args) => QuoteOfTheDay.Text =
args.Result;
client.GetQuoteOfTheDayAsync();
```
- B. client.GetQuoteOfTheDayCompleted += (s, args) =>
 

```
{
 if (args.Result != null)
 {
```



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