**The purpose of the technical review is to ensure an author has delivered what the outline proposed—no more, no less, emphasis on “no more,” as overteaching creates unintended and unwanted content overlap.**

INSTRUCTIONS:

When working with the course author:

1. Create a course production timeline and turnaround time agreement with the course author to avoid any potential delays due to schedule
2. Utilize dropbox folder provided by your PC to share video content for the technical review
3. Perform the technical review of the content to make sure it closely follows the approved outline
4. Fill out the form below with the appropriate information
5. As you watch the course modules, respond to each question on the rubric:
   1. Yes - video content follows approved outline
   2. Somewhat - there are suggestions for additional explanation or changes
   3. No - video content does not follow the approve outline and is missing information
6. Provide feedback comments when you select ***Somewhat*** or ***No*** so it is clear for the author what needs to be fixed
7. Please feel free to add additional comments and notes you would like to share with the author
8. Once you complete the review please let the author know it is done
9. Please do that for each module and add additional tables for more modules, if needed

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| **Course Title:** | F# 6 Fundamentals |
| **Course Author:** | Michael Heydt |
| **Course Tech Reviewer:** | Zoran Horvat |
| **Estimated Course Length** | 216.5 min |
| **Final Delivery Date:** | 5/2/2022 |

*Copy this table for additional modules. Start with Module 2 as Module 1 is an Overview.*

*Remember the answers are*

* *Yes*
* *Somewhat*
* *No*

*Please add notes if* ***Somewhat*** *or* ***No*** *answers are provided.*

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| **Module 2 Title:** | **Getting Started with F# 6 and .NET 6** |
| **Questions** | **Answers** |
| Does the module follow the approved outline? | Yes |
| Is this module concise, focused, and relevant to the course topic? | Yes |
| ***Optional:***  Additional Notes: | Overall good module, with a lot of details that will help the beginners in F# to orient and start without the need to look for external resources.  Notes after demos were added:  MUST FIX 02-05 @00:12 The "Demo" title on the left is moving  02-08 @00:24 The bullet point "to run F# the project" was probably meant "to run the F# project"  MUST FIX 02-10 @00:47 The last bullet point is flickering  Notes before demos were added:  02-01 MUST FIX @00:18 Mouse visible  02-01 @04:55 Version check narration is too detailed - future change in version numbers will require recording sound again, which is tricky to apply onto an old recording. My approach (confirmed by PS) was to simply say: “These are the versions used in this course”. Later updates will only change the slide. The same stands for extensions and tools (e.g. We shall use Ionide-fsharp in this course).  02-02 I like the green slide template  02-03 SHOULD FIX Sound is much louder than at the end of 02-02  02-03 @00:48 Overly specific versions in narration will require re-recording on a later update. (e.g. In my course, I said it without specifying versions, like: This page will show you the actual versions of .NET. You can select the latest one and follow instructions that apply to your machine.)  02-03 @01:48 Minor detail: I am not sure how useful is the discussion of pricing tiers and other similar details of distinct IDEs. Anyway, no need to bother changing this.  02-04 MUST FIX @00:00 Mouse visible  02-05 @00:58 Buzzing sound over the recording. In the future, consider removing all electronic devices away from the recording equipment, especially the cell phone, but also any CD drives, etc. It is useful to discover which particular device is causing interference, so to keep that one away.  02-05 @02:00 Nothing mandatory to fix, but in this and other places where command prompt is displayed, there are intermittent breaks in blinking rate and appearance of the mouse pointer. It looks like a portion of video recording was repeated several times, but without paying due attention to the point where portions are glued together.  02-06 @01:32 Very useful overview of CLI commands.  02-07 @00:33 Mouse pointer is tilting  02-07 @02:27 A bump is heard at the time when silence is expected. Maybe this can be fixed by silencing the sound between two sentences.  02-08 @00:54 Mouse movement repeats across the screen  02-10 @01:34 I am worried about introducing imperative loops in the course on F#. Nothing to fix about it, but I would advise caution, since many viewers will be beginners in functional programming. P.S. Later, when that discussion came, I found it less worrying. Plus, the author made a note against using imperative loops.  02-15 @03:00 Here you are discussing immutability of expressions. I cannot remember F# well, but what prevents a function from mutating state if one of the if-else branches has made a call to such a function? This explanation might (but not necessarily) require a few more details to be complete. |
| ***Optional:***  Was the correct slide deck used? | Yes |
| ***Optional:***  Was the font correct? | Yes |
| ***Optional:***  Was the resolution correct? | Yes |

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| **Module 3 Title:** |  |
| **Questions** | **Answers** |
| Does the module follow the approved outline? |  |
| Is this module concise, focused, and relevant to the course topic? | Yes |
| ***Optional:***  Additional Notes: | 03-01 @00:25-01:00 Nothing happens on the screen but a lot of text is being spoken. Please consider adding a few more bullets  03-02 @01:24-02:20 Bullets animation is out of sync with the speech  03-03/03-04 Useful side notes on using launch.json in VS Code  03-05 @06:50 The last bullet, reading "Cannot cons an item to the end", is never mentioned in speech. Could that be moved to the comment above, like the other note (empty list will explode)?  03-06 @07:36 The screen that dims subsequent bullets is misaligned  03-07 @04:19 There is a glitch where screens covering bullet points are visible before slide transition  03-09 @01:29 Single quote (') was transformed (probably by PowerPoint), and looks confusingly different from what we see in code. Also, the left-hand side of the slide looks like showing a backtick, which has confused me, up to the point that I had to Google which one is correct.  03-10 @03:01 There is a glitch in bullet points  03-12 Very nice explanation of expressions vs. statements  03-12 @04:28 A different slide with code appears for a fraction of a second  03-14 Nice demonstration of closures |
| ***Optional:***  Was the correct slide deck used? |  |
| ***Optional:***  Was the font correct? |  |
| ***Optional:***  Was the resolution correct? |  |

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| **Module 4 Title:** |  |
| **Questions** | **Answers** |
| Does the module follow the approved outline? |  |
| Is this module concise, focused, and relevant to the course topic? | Yes |
| ***Optional:***  Additional Notes: | 04-02 @00:30-01:20 A lot of text is being spoken, including introducing an example, but there are no visual cues in the slide to supplement it. I find it hard to follow a long spoken text without at least a few words for the reference on the screen.  04-04 @03:57 Slide specifies that output is "one", but actual output is "One" with capital O  04-04 Overall, a very good and useful coverage of match expressions  MUST FIX 04-05 @00:05 The "F#, being a functional programming language" part of the sentence is repeated  MUST FIX 04-05 Please check if there is a black frame at the very end of the Clip. This can happen in Camtasia, when the audio track is by a tiny portion of time longer than the video track. It may also happen when the audio track is re-inserted back after processing in an external program, due to MP3 encoding producing audio that is a few milliseconds shorter or longer than the prior one.  04-08 @01:40 Please check the phrasing of the sentence in the middle (... but type in namespace where and...)  04-08 @07:20 Orange bullet point blinks  MUST FIX 04-10 Please check if the clip ends in a black frame  MUST FIX 04-11 Same problem: black farme at the end  MUST FIX 04-12 @01:13 There is a sudden change in the bulleted list  MUST FIX 04-12 Black frame at the very end of the clip |
| ***Optional:***  Was the correct slide deck used? |  |
| ***Optional:***  Was the font correct? |  |
| ***Optional:***  Was the resolution correct? |  |

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| **Module 5 Title:** |  |
| **Questions** | **Answers** |
| Does the module follow the approved outline? |  |
| Is this module concise, focused, and relevant to the course topic? | Yes |
| ***Optional:***  Additional Notes: | Overall, a very well crafted module, with a lot of information. The narration is advancing at a steady pace, teaching concepts in their natural order, combining lesser concepts into more complex ones.  05-01 None of the first clips in any of the modules has the author's image on the title slide. Is that intended?  MUST FIX 05-01 @01:25 There is a black line appearing at the top of the screen.  MUST FIX 05-02 @04:30 Same as in the previous clip, a black pine appears at the top of the slide.  MUST FIX 05-03 @07:19 Mistake in emphasizing code with a rectangular outline. The wrong part of the screen is outlined and the affected line of code is still dimmed.  MUST FIX 05-03 Black frame at the.end of the clip.  MUST FIX 05-04 @00:20 There is an echo, like two sound tracks playing simultaneously.  MUST FIX 05-04 @02:45 thru the end - Bullet points are not un-grayed as the speech advances.  05-10 @02:29 I have a concern about the explanation that |> operator passes the value as the rightmost operator of the expression on the right. From what I understand is that the operand on the left will be used as the first unbound parameter on the right. Consider this example:  let sumAny = List.fold (+)  // val sumAny: (int -> int list -> int)  The sumAny has two unbound parameters - the seed and the sequence.  let sum = 0 |> sumAny  // val sum: (int list -> int)  Value 0 is here bound to the leftmost unbound parameter, i.e. the seed.  [1..10] |> sum  // val it: int = 55  The example I have given will rarely make sense. From my experience, |> is most useful when there is exactly one unbound parameter on the right, which opens room for chaining several |> in one expression. When that is so, and it almost invariably is, there will be no confusion. Nevertheless, my feeling is that the use of "rightmost" in the explanation will confuse the learners.  05-10 A very good explanation of forwarding operators.  05-11 I think that this module should also incorporate a clip explaining tail recursion, probably right after this clip. The difference between form @04:00 and form @04:30 is that the latter is tail-recursive. The former is not applicable to large lists, due to performance and possible stack overflow, while the latter is both CPU and memory efficient, and safe. I think that that distinction is very important to learners. |
| ***Optional:***  Was the correct slide deck used? |  |
| ***Optional:***  Was the font correct? |  |
| ***Optional:***  Was the resolution correct? |  |

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| **Module 6 Title:** |  |
| **Questions** | **Answers** |
| Does the module follow the approved outline? |  |
| Is this module concise, focused, and relevant to the course topic? | Yes |
| ***Optional:***  Additional Notes: | A very informative module. I used to learn F# from other courses in the library in prior years, but must admit that I didn't know half of the things shown in this module exist.  MUST FIX 06-03 @07:17 Mouse pointer visible at the bottom of the screen.  MUST FIX 06-04 @01:34 Mouse pointer briefly visible moving on the screen. In recent Camtasia versions, mouse pointer can be removed by setting its opacity to 0 in the video recording properties.  06-04 @06:10 Speaking omission: said "then it is a rectangle" where "then it is a square" was meant. Maybe it is possible to copy & paste the word "square" from a sentence before or cover it otherwise, or to just ignore, because it is obvious from the context what was meant to be said.  MUST FIX 06-07 @05:36 Bullet points are not undimmed as the speech progresses    MUST FIX 06-07 @11:18 There is a thick black line on top of the screen  MUST FIX 06-09 @00:55 There is a thick black line on top of the screen  MUST FIX 06-11 @00:40 Mouse pointer visible at the bottom of the screen  MUST FIX 06-11 @01:55 Mouse pointer visible on the screen |
| ***Optional:***  Was the correct slide deck used? |  |
| ***Optional:***  Was the font correct? |  |
| ***Optional:***  Was the resolution correct? |  |

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| **Module 7 Title:** |  |
| **Questions** | **Answers** |
| Does the module follow the approved outline? |  |
| Is this module concise, focused, and relevant to the course topic? | Yes |
| ***Optional:***  Additional Notes: | Another good module, covering collections and sequences. Besides a few visual glitches, nothing significant to change.  MUST FIX 07-01 @01:47 There is a thick black line at the top of the screen  MUST FIX 07-02 @02:57 Mouse pointer visible at the bottom of the screen  MUST FIX 07-03 @00:55 A thick black line appears at the top  07-03 @02:27 The rectangular outline appears before the text it outlines is "activated"  MUST FIX 07-04 @00:52 There is flickering of bullet points  MUST FIX 07-04 @01:23 A black frame appears  MUST FIX 07-04 @01:49 A thick black line appears at the top |
| ***Optional:***  Was the correct slide deck used? |  |
| ***Optional:***  Was the font correct? |  |
| ***Optional:***  Was the resolution correct? |  |

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| **Module 8 Title:** |  |
| **Questions** | **Answers** |
| Does the module follow the approved outline? |  |
| Is this module concise, focused, and relevant to the course topic? | Yes |
| ***Optional:***  Additional Notes: | A well-packaged list of technologies to learn after this course. Nothing to improve. |
| ***Optional:***  Was the correct slide deck used? |  |
| ***Optional:***  Was the font correct? |  |
| ***Optional:***  Was the resolution correct? |  |

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| **Module 9 Title:** |  |
| **Questions** | **Answers** |
| Does the module follow the approved outline? |  |
| Is this module concise, focused, and relevant to the course topic? |  |
| ***Optional:***  Additional Notes: |  |
| ***Optional:***  Was the correct slide deck used? |  |
| ***Optional:***  Was the font correct? |  |
| ***Optional:***  Was the resolution correct? |  |