



**Practice Instructions and Homework Assignments
for the Beginner CW Academy Course (Second
Edition)**

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2019 - Revision 2.1 by Bob Carter, WR7Q; Change course name from Level 1 to Beginner

2020 - Apr - Rev. 2.2 by Bob Carter, WR7Q; Change Session 7 Sending Segments : to Copying Segments:

2020 - Sep - Rev. 2.3 by Bob Carter, WR 7Q; Added Zoom also

Welcome to CW Academy's Beginner course. Before you take note of the homework assignments, below, you should understand how we expect you to practice during the eight-week course.

Your course is broken up into 16 sessions corresponding to a twice weekly on-line meeting with your advisors. You are expected to practice the assignment for session 1, for example, before the on-line session 1 so that the advisor can assess your progress and any problems. So, you practice the session 1 assignments for the days preceding session 1, and then practice the session 2 assignment for the days preceding session 2, and so on.

There are two key tools we use to ensure your success in this course. One is Zoom (or Skype) which enables us to meet in a virtual training room two times per week, online. We can see and hear each other, and can hear any code being sent.

But the most important tool is Morse Trainer. To set it up, read "Using Morse Trainer." Morse Trainer is pre-loaded with your homework assignment segments. You will play them, over and over, until you feel comfortable that you recognize each letter's and number's sound pattern. Note, I did not say each letter's and number's dots and dashes or dits and dahs – I said sound pattern. That's the secret to learning Morse in a way that will scale up in speed as you progress.

So, for example, your first homework assignment is to play the following segments, one at a time, until you feel you can recognize them:

Segment 1: t t t t t

Segment 2: e e e e e

Segment 3: a a a a a

Segment 4: n n n n n

Segment 5: tea

Segment 6: tee

Segment 7: eat

Segment 8: ate

Segment 9: at

Segment 10: tat

Segment 11: teen

Segment 12: neat

Segment 13: ten

Segment 14: net

Segment 15: tan

To enter a segment into Morse Trainer, simply select the session/segment from the menu, then hit "play." You can repeat a segment by hitting "play" over and over again. When you're done, select the next segment in place of the previous segment, and continue.

This constitutes your ‘copying’ practice. The key is to learn to recognize a letter or number’s pattern, and then recognize words that use those letters. You will start out by adjusting the speed of Morse Trainer so that letters and words are sent at 20 wpm.

Each homework assignment also has segments for ‘sending’ practice. For example, session 1 has the following sending segments:

Segment 1: tea

Segment 2: ten

Segment 3: net

Segment 4: tee

What you will do is select a segment, and then play it. Then you will try to imitate it, exactly, using your key or keyer. Repeat it as many times as it takes to feel like you’ve gotten the correct word pattern. For example, “tea” will sound like “dah” space “dit” space “didah.” If you don’t have enough space, say, between the “t” and “e”, it will sound like “dahdit” “didah.” That is “na” and not “tea.” Timing is everything in sending.

So, before you meet for session 1, you should be able to recognize the patterns of the letters “t”, “e”, “a” and “n.” And you should be able to recognize the patterns of the words “tea,” “ten,” “net,” and “tee.” And, you will be able to do that at 20 wpm!

During your first session, your advisor will be sending those words to you, individually, and seeing if you have learned them. Then, he/she will ask you, individually, to send words to assess how well you’ve learned good element (dit or dah) timing and spacing.

You probably realize, now, that most of your time and effort will be spent using Morse Trainer BEFORE each session, and the session is primarily used for assessment and constructive suggestions.

You will find that you should be spending at least 30 minutes per day, including session days, broken up into 15 minute periods. But take as long as you need to feel comfortable that you’ve ‘gotten’ the copying and sending segments down before each session.

Okay, now that you know what’s expected of you, here are the homework assignments organized by session and segment.

Homework Assignments

Session 1:

Copying segments:

Segment: t t t t t

Segment: e e e e e

Segment: a a a a a

Segment: n n n n n

Segment: tea

Segment: tee

Segment: eat

Segment: ate

Segment: at

Segment: tat

Segment: teen

Segment: neat

Segment: ten

Segment: net

Segment: tan

Segment: eat at ten

Segment: ate at ten

Segment: at tee

Sending segments:

Segment: tea

Segment: ten

Segment: net

Segment: tee

Segment: eat at ten

Segment: at tee

Session 2

Copying segments:

Segment: t t t t t

Segment: e e e e e

Segment: a a a a a

Segment: n n n n n

Segment: o o o o o

Segment: i i i i i

Segment: s s s s s

Segment: 1 1 1 1 1
Segment: 4 4 4 4 4
Segment: ten
Segment: ton
Segment: tin
Segment: tie
Segment: toe
Segment: no
Segment: not
Segment: note
Segment: it
Segment: at
Segment: one
Segment: neat
Segment: net
Segment: nit
Segment: toes
Segment: stone
Segment: tease
Segment: noise
Segment: one neat note
Segment: no noise
Segment: tie it
Segment: 1 ton stone

Segment: N1AS
Segment: N4ON
Segment: S41T
Segment: NO1S
Segment: AI1E
Segment: IT4O
Segment: EA1ON
Segment: ES4IT

Sending Segments:

Segment: stone
Segment: tin
Segment: tie
Segment: no
Segment: not
Segment: it

Segment: at
Segment: N1AS
Segment: N4ON
Segment: S41T
Segment: NO1S
Segment: AI1E
Segment: IT4O
Segment: EA1ON
Segment: ES4IT
Segment: 1 ton stone
Segment: 14 notes
Segment: ten toes

Session 3

Copying Segments:

Segment: o o o o o
Segment: i i i i
Segment: s s s s s
Segment: r r r r r
Segment: h h h h h
Segment: d d d d d
Segment: l l l l l (the letter "l")
Segment: 2 2 2 2 2
Segment: 5 5 5 5 5
Segment: all
Segment: tell
Segment: tall
Segment: deal
Segment: the
Segment: their
Segment: doll
Segment: dell
Segment: hall
Segment: hill
Segment: hole
Segment: load
Segment: lead
Segment: late
Segment: later
Segment: seal
Segment: sell

Segment: sole
Segment: she
Segment: shed
Segment: her
Segment: hear
Segment: DL1AT
Segment: HH5H
Segment: HS1TD
Segment: ND2T
Segment: NA4T
Segment: 142
Segment: 451
Segment: 1425
Segment: a tall hill
Segment: she is here
Segment: he is late
Segment: 4 sheds
Segment: 12 hills

Sending Segments:

Segment: all
Segment: tell
Segment: the
Segment: lead
Segment: late
Segment: she
Segment: her
Segment: DL1AT
Segment: HH5H
Segment: HS1TD
Segment: ND2T
Segment: NA4T
Segment: 142
Segment: 451
Segment: 1425
Segment: she is here
Segment: he is late

Session 4

Copying Segments:

Segment: r r r r

Segment: h h h h h
Segment: d d d d d
Segment: l l l l l (the letter “l”)
Segment: 1 1 1 1 1 (the number “1”)
Segment: 4 4 4 4 4
Segment: u u u u u
Segment: c c c c c
Segment: chat
Segment: chair
Segment: chin
Segment: chart
Segment: ouch
Segment: couch
Segment: touch
Segment: such
Segment: teach
Segment: reach
Segment: sun
Segment: son
Segment: hold
Segment: told
Segment: sail
Segment: rail
Segment: tail
Segment: nail
Segment: oil
Segment: soil
Segment: toil
Segment: coil
Segment: rain
Segment: cause
Segment: sauce
Segment: toss
Segment: toll
Segment: tall
Segment: tell
Segment: cell
Segment: call
Segment: NC5A
Segment: NA2T
Segment: CU1LL

Segment: CO5NO
Segment: NU4R
Segment: CT1AC
Segment: CE1NI
Segment: 4241
Segment: 1452
Segment: in the cell
Segment: that hurts
Segment: at the hall
Segment: hole in 1

Sending Segments:

Segment: chat
Segment: chin
Segment: teach
Segment: sail
Segment: rain
Segment: tall
Segment: tell
Segment: NC5A
Segment: NA2T
Segment: CU1LL
Segment: CO5NO
Segment: NU4R
Segment: CT1AC
Segment: CE1NI
Segment: 4241
Segment: 1452
Segment: sail on sailor
Segment: tell all
Segment: hold on

Session 5

Copying Segments:

Segment: u u u u u
Segment: c c c c c
Segment: 2 2 2 2 2
Segment: 5 5 5 5 5
Segment: m m m m m
Segment: w w w w w
Segment: 3 3 3 3 3

Segment: 6 6 6 6 6
Segment: ? ? ? ? ?
Segment: wait
Segment: wall
Segment: well
Segment: will
Segment: mall
Segment: mill
Segment: chum
Segment: mow
Segment: much
Segment: such
Segment: water
Segment: wet
Segment: what
Segment: dew
Segment: date
Segment: atom
Segment: tow
Segment: tower
Segment: were
Segment: where
Segment: was
Segment: wish
Segment: wash
Segment: mat
Segment: matt
Segment: mel
Segment: him
Segment: her
Segment: his
Segment: hw?
Segment: W3AA
Segment: N3AM
Segment: DM5RA
Segment: W6AM
Segment: N2AT
Segment: RW5L
Segment: ON4UN
Segment: 335
Segment: 1432

Segment: 6122
Segment: well water
Segment: how is it?
Segment: is this it?
Segment: this is it

Sending Segments:

Segment: wait
Segment: well
Segment: mall
Segment: mill
Segment: wet
Segment: date
Segment: W3AA
Segment: N3AM
Segment: DM5RA
Segment: W6AM
Segment: N2AT
Segment: RW5L
Segment: ON4UN
Segment: 335
Segment: 1432
Segment: 6122
Segment: this is it
Segment: 1432 hill street
Segment: 1 and 4 is 5

Session 6

Copying Segments:

Segment: m m m m m
Segment: w w w w w
Segment: 3 3 3 3 3
Segment: 6 6 6 6 6
Segment: f f f f f
Segment: y y y y y
Segment: you
Segment: toy
Segment: foot
Segment: tooth
Segment: root
Segment: cute

Segment: noise
Segment: larry
Segment: roy
Segment: ton
Segment: teeth
Segment: feet
Segment: yet
Segment: they
Segment: say
Segment: ray
Segment: hay
Segment: your
Segment: fair
Segment: fare
Segment: far
Segment: fur
Segment: furry
Segment: hw?
Segment: F5IN
Segment: YO1AR
Segment: HH5H
Segment: NO3M
Segment: AA3U
Segment: S52R
Segment: 1512
Segment: 3316
Segment: is this fair?
Segment: yes it is
Segment: the fur flies
Segment: she is shy
Segment: I say no
Segment: she says yes

Sending Seqments

Segment: cute
Segment: said
Segment: raid
Segment: stir
Segment: him
Segment: feet
Segment: hw?

Segment: F5IN
Segment: YO1AR
Segment: HH5H
Segment: NO3M
Segment: AA3 U
Segment: S52R
Segment: 1512
Segment: 3316
Segment: she says yes
Segment: he says no
Segment: who is he?
Segment: he is will
Segment: no he is walt

Session 7

Copying Segments:

Segment: f f f f f
Segment: y y y y y
Segment: 3 3 3 3 3
Segment: 6 6 6 6 6
Segment: p p p p p
Segment: g g g g g
Segment: 7 7 7 7 7
Segment: 9 9 9 9 9
Segment: / / / / /
Segment: page
Segment: paper
Segment:pepper
Segment: glad
Segment: glare
Segment: large
Segment: ledge
Segment: george
Segment: geo
Segment: chas
Segment: chase
Segment: change
Segment: peg
Segment: pug
Segment: pig
Segment: pen

Segment: pencil
Segment: pipe
Segment: pit
Segment: gain
Segment: garage
Segment: guard
Segment: gas
Segment: gus
Segment: chug
Segment: yes
Segment: yet
Segment: yonder
Segment: coy
Segment: G4AN/3
Segment: N1AR/5
Segment: W9UCA/9
Segment: W3/PY2AA
Segment: F6/N6AM
Segment: 2N2222
Segment: 7423
Segment: 14253679
Segment: he is a pro
Segment: she is near
Segment: do not gape
Segment: he is at 19 glen street

Sending Segments:

Segment: page
Segment: glare
Segment: ledge
Segment: george
Segment: pen
Segment: pit
Segment: G4AN/3
Segment: N1AR/5
Segment: W9UCA/9
Segment: W3/PY2AA
Segment: F6/N6AM
Segment: 2N2222
Segment: 7423
Segment: 14253679

Segment: go to her
Segment: read the page
Segment: wat page?
Segment: page 15

Session 8

Copying Segments:

Segment: b b b b b
Segment: v v v v v
Segment: 7 7 7 7 7
Segment: 9 9 9 9 9
Segment: / / / / /
Segment: vote
Segment: vat
Segment: view
Segment: wave
Segment: pave
Segment: save
Segment: vow
Segment: valve
Segment: solve
Segment: volt
Segment: vault
Segment: bad
Segment: body
Segment: bore
Segment: born
Segment: barn
Segment: barney
Segment: brad
Segment: bread
Segment: bed
Segment: better
Segment: best
Segment: bill
Segment: build
Segment: built
Segment: bolt
Segment: bulb
Segment: blame
Segment: blend

Segment: bland
Segment: blow
Segment: BV2AA
Segment: BA1RO
Segment: WB2AE
Segment: N6RB/4
Segment: W2/VE1AR
Segment: VE2/W2LE
Segment: 6146
Segment: 5514
Segment: name is bob
Segment: name is bill
Segment: name is ted
Segment: name is Vinnie
Segment: ur rst is 559
Segment: ur rst is 459

Sending Segments:

Segment: vote
Segment: valve
Segment: bed
Segment: best
Segment: BV2AA
Segment: BA1RO
Segment: WB2AE
Segment: N6RB/4
Segment: W2/VE1AR
Segment: VE2/W2LE
Segment: 6146
Segment: 5514
Segment: name is bill
Segment: name is art
Segment: ur rst is 579
Segment: ur rst is 449

Session 9

Copying Segments:

Segment: b b b b b
Segment: v v v v v
Segment: k k k k k
Segment: j j j j j

Segment: 8 8 8 8 8

Segment: 0 0 0 0 0

Segment: <BT><BT><BT><BT><BT> (make sure you've selected "pro signs" on Morse Translator)

Segment: jack

Segment: jay

Segment: john

Segment: jim

Segment: jerry

Segment: back

Segment: rack

Segment: tack

Segment: tech

Segment: tach

Segment: reach

Segment: each

Segment: teach

Segment: help

Segment: high

Segment: hill

Segment: fact

Segment: face

Segment: far

Segment: fear

Segment: then

Segment: their

Segment: him

Segment: her

Segment: his

Segment: hers

Segment: them

Segment: they

Segment: their

Segment: switch

Segment: line

Segment: ant

Segment: dipole

Segment: vertical

Segment: ohms

Segment: home

Segment: away

Segment: test
Segment: Asia
Segment: Africa
Segment: K1JD
Segment: N1AR
Segment: W2TT
Segment: K2UMU
Segment: N2NW
Segment: VE3NE
Segment: VA3KP
Segment: K4BAI
Segment: N5KO
Segment: 807
Segment: 3500Z
Segment: 4250A
Segment: hw is he?
Segment: name is joe
Segment: name is john
Segment: name is jim
Segment: ur rst is 579
Segment: ur rst is 339
Segment: sri no cpy

Sending Segments:

Segment: jack
Segment: tach
Segment: reach
Segment: each
Segment: fear
Segment: his
Segment: ant
Segment: K1JD
Segment: N1AR
Segment: W2TT
Segment: K2UMU
Segment: N2NW
Segment: VE3NE
Segment: VA3KP
Segment: K4BAI
Segment: N5KO
Segment: 807

Segment: 3500Z
Segment: 4250A
Segment: name is fred
Segment: name is tom
Segment: name is john
Segment: name is bob
Segment: ur rst is 549

Session 10

Copying Segments:

Segment: k k k k k
Segment: j j j j j
Segment: 8 8 8 8 8
Segment: 0 0 0 0 0
Segment: x x x x x
Segment: q q q q q
Segment: z z z z z
Segment: <BK><BK><BK><BK><BK>
Segment: wl
Segment: ur
Segment: ok
Segment: hw?
Segment: qrx
Segment: rig
Segment: wx
Segment: ant
Segment: pwr
Segment: kw
Segment: name
Segment: Memphis
Segment: nyc
Segment: sf
Segment: dallas
Segment: Houston
Segment: nm
Segment: nj
Segment: ca
Segment: ut
Segment: al
Segment: ar
Segment: il

Segment: in
Segment: me
Segment: ma
Segment: ct
Segment: co
Segment: qrm
Segment: ne
Segment: sd
Segment: nd
Segment: pa
Segment: ky
Segment: fl
Segment: nc
Segment: sc
Segment: sdgo
Segment: lax
Segment: la
Segment: on
Segment: sk
Segment: mb
Segment: nt
Segment: ab
Segment: qc
Segment: nb
Segment: ns
Segment: nr
Segment: rst
Segment: uk
Segment: usa
Segment: Tokyo
Segment: paris
Segment: London
Segment: hamburg
Segment: Sydney
Segment: ZL2TT
Segment: VK4OM
Segment: JE1TRV
Segment: BA1CW
Segment: KH6LC
Segment: AL2A
Segment: AA3B

Segment: 8044
Segment: 7400
Segment: 73
Segment: u hv qsb
Segment: u hv qrm
Segment: name?
Segment: qth?
Segment: qth is ny
Segment: qth is paris
Segment: pse qsy to 7054

Sending Segments:

Segment: wl
Segment: ur
Segment: ok
Segment: qrx
Segment: rig
Segment: wx
Segment: ant
Segment: pwr
Segment: kw
Segment: qrz
Segment: qth
Segment: qrs
Segment: qro
Segment: qrp
Segment: ZL2TT
Segment: VK4OM
Segment: JE1TRV
Segment: BA1CW
Segment: KH6LC
Segment: AL2A
Segment: AA3B
Segment: 8044
Segment: 7400
Segment: 73
Segment: ur rst is 579
Segment: qth is nr Tulsa
Segment: name is barry
Segment: ur rst is 559
Segment: qth is Dayton oh

Segment: name is john

Session 11

Copying Segment:

Segment: [your callsign] de k6rbur rst 579 nr sf name rob hw? [your callsign] de k6rb k

Segment: [your callsign] de n3jt ur rst is 5nn <BT> qth mclean va ? mclean va <BT> op is jim de n3jt

Segment: [your callsign] de w1rm <BT>ur rst 569 569 in ct name is pete bk

Sending Segment:

Segment: k6rb de [your callsign] – ur rst 57n in [your town/city and state abbreviation] - name is [your name] btu k6rb de [your callsign] k

Segment: n3jt de [your callsign] – ur rst 56n in [your town/city and state abbreviation] – name is [your name] – n3jt de [your callsign] k

Segment: w1rm de [your callsign] – ur rst 45n wid QRN in [your town/city and state abbreviation] – name is [your name] – w1rm de [your callsign] k

Session 12

Copying Segments:

Segment: [your callsign] de k6rb wx cldy temp 58 <BT>rig runs 100 w to vert <BT>age is 66 so hw?[your callsign] de k6rb k

Segment: [your callsign] de n3jt <BT>wx rain temp 42<BT>rig is k3 es ant is 4 el yagi -age is 65 ok? de n3jt

Segment: [your callsign] de w1rm wx snow temp 24rig is IC 7700 pwr is kw es ant is dipole age is 70 hw? BK

Sending Segments:

Segment: k6rb de [your callsign] – wx sunny temp 82 –rig runs [your power] w to [your antenna] – age is [your age] hw? k6rb de [your callsign] k

Segment: n3jt de [your callsign] – wx rain temp 54 –rig runs [your power] w to [your antenna] – age is [your age] hw? n3jt de [your callsign] k

Segment: w1rm de [your callsign] – wx oc temp 70 –rig runs [your power] w to [your antenna] – age is [your age] hw?w1rm de [your callsign] k

Session 13

Copying Segments:

Segment: [your callsign] de k6rb tnx fer qso es hpe cu agn 73 <SK> [your callsign] de k6rb ee

Segment: [your callsign] de n3jt nice qso tnx cul 73 <SK> [your callsign] de n3jt gn

Segment: [your callsign] de w1rm – enjoyed qso <SK> [your callsign] de w1rm ee

Sending Segments:

Segment: k6rb de [your callsign] tu fer qso cu agn 73 <SK> k6rb de [your callsign]

Segment: n3jt de [your callsign] cul es nice qso 73 <SK> k6rb de [your callsign] ee

Segment: w1rm de [your callsign] enjoyed qso also 73 <SK> w1rm de [your callsign] cu ee

Session 14

Before online sessions, listen to HF radio on CW sub-bands. Listen for slower stations calling CQ and copy their callsigns. Listen to slower stations in QSO and see if you can copy what they are saying. Practice sending first, second and wrap exchanges.

Practice sending your callsign, ur qth, and ur name – over and over again!!!

Session 15 and 16

No homework