

0:00:00.170,0:00:12.090

hello I'm ty Willison with Habitat for  
Humanity today we are going to be

0:00:12.090,0:00:17.400

replacing a window on this house and we  
have a couple of different stages that

0:00:17.400,0:00:23.990

we're at right now normally habitat you  
think of building new houses but we also

0:00:23.990,0:00:30.150

starting in about 2010 remodel houses  
too especially in the areas where we're

0:00:30.150,0:00:34.309

building new houses the the  
neighborhoods were building new houses

0:00:34.309,0:00:39.059

as a matter of fact we built about 59  
houses in a development just like three

0:00:39.059,0:00:44.969

houses are up three streets over that  
way and but today we're replacing the

0:00:44.969,0:00:50.750

window this house has all single pane  
windows they all have these foggy glass

0:00:50.750,0:00:55.020

they all don't really work anymore  
they'll really open and close anymore a

0:00:55.020,0:00:59.940

lot of them are missing their screens  
there a lot of them don't they aren't sealed

0:00:59.940,0:01:05.240

all the way around so even when they're  
closed they kind of let air in and out

0:01:05.240,0:01:15.150

so we're putting these vinyl windows  
they're energy-efficient double paned glass low-e and insulated

0:01:15.150,0:01:21.480

so we're putting those in they work nice and smoothly they work really well

0:01:22.500,0:01:25.440

as you can see it has what's  
called a flan just little edge right

0:01:25.440,0:01:31.920

here and when they installed it back in  
1960 when they built this house they put

0:01:31.920,0:01:35.040

in this wood bucking and I'll show you  
what that is in a little bit and then

0:01:35.040,0:01:40.020

they caulk right to this edge right here  
all the way around so when we took it

0:01:40.020,0:01:44.369

out we had to take out some screws there was just four of them and we have to

0:01:44.369,0:01:48.660

push it out from the inside and when we  
did that we were breaking that caulked

0:01:48.660,0:01:53.670

edge that's what we're gonna be doing on  
this one over here now of course in

0:01:53.670,0:02:00.380

order to get to it that flange we have  
to first remove the stucco all four sides

0:02:00.380,0:02:05.310

not all houses have that but this one  
does and that's okay we'll just have to

0:02:05.310,0:02:09.020

remove it and then stucco it back later

0:02:09.840,0:02:13.920

okay so now we're at the step where we're going to start removing the stucco

0:02:13.920,0:02:18.340

we're going to use what's called an angle grinder it has a diamond blade on it

0:02:18.340,0:02:23.520

today that's what you use to cut  
concrete and mortar and stuff and make sure

0:02:23.600,0:02:27.200

you stay safe you want to make sure you  
have a guard on there that you wear a

0:02:27.209,0:02:31.650

dust mask because there's lots of silica  
in the concrete dust wear safety glasses

0:02:31.650,0:02:35.630

and I have ear protection

0:02:44.610,0:02:48.520

now that I've got a score mark it's  
gonna break nice and nice and clean

0:02:48.520,0:02:52.510

on that line I'm gonna start hitting it

with my hammer and we found yesterday

0:02:52.510,0:02:56.580

that at this house anyway it comes off  
pretty easily so if it doesn't we do

0:02:56.580,0:03:01.320

have our hammer drill with the chipping  
bit to break at it

0:03:05.620,0:03:06.420

okay so when we got

0:03:06.580,0:03:10.200

all the caulk all the stucco off I found  
that there's a whole bunch of loose

0:03:10.209,0:03:14.760

caulk on here which actually works out  
perfect cause that's got to come out too

0:03:14.760,0:03:23.019

see this we got to pull all that out too  
and because that's what that's how

0:03:23.019,0:03:27.760

they glued in the window before  
they put it in with caulking and screws

0:03:27.760,0:03:34.840

and so that's got to come out in order for  
us to get this window out

0:03:37.400,0:03:44.520

they're real short because they are going into wood bucking that's on the cinder block but

0:03:44.520,0:03:47.460

the wood bucking is only three-quarters  
of an inch thick so they didn't use

0:03:47.460,0:03:49.400

really long screws

0:03:51.800,0:03:53.800

this falls out

0:03:53.800,0:03:55.680

then we won't reuse these because we

0:03:55.680,0:04:02.640

have new screws to put in and besides  
these are have a rusty head what we're

0:04:02.650,0:04:07.090

gonna use exterior screws that don't  
rust okay so that's the screws on the

0:04:07.090,0:04:10.780

out on the in no we're on the  
outside on the outside now we're going

0:04:10.780,0:04:16.939

to go find the ones on the inside and  
take down the blinds

0:04:20.590,0:04:25.180

well we took down the blinds and took  
out the brackets too because they were

0:04:25.180,0:04:28.900

in the way of putting in the new one and  
as matter of fact I've missed one I got

0:04:28.900,0:04:30.460

to do this little bracket right here

0:04:39.460,0:04:41.780

now a lot of times when you're taking out

0:04:41.920,0:04:48.160

windows that are say 15 20 years old  
they are in there pretty good and you

0:04:48.160,0:04:51.639

have to really push on them pretty hard and  
you have to cut the caulking all the way

0:04:51.639,0:04:55.120

around with your knife

this one's been in here since the 60s

0:04:55.120,0:04:59.440

and so it's not actually in there very

good and so I'm already just able to

0:04:59.440,0:05:03.790

push on it and it comes starts to come

right out well as long as I've got all

0:05:03.790,0:05:11.440

the screws which I think I have but I'm

not sure oh yeah it looks like I did get

0:05:11.440,0:05:15.430

all the screws so just you always gonna

have somebody helping you cause you have

0:05:15.430,0:05:21.580

to push it out to that person now the

next step is we're gonna clean this all

0:05:21.580,0:05:28.570

up before we dry fit the new one but

ideally what happens is it sits inside

0:05:28.570,0:05:34.270

of your drywall here and here and here  
and on top of the windowsill right here

0:05:34.270,0:05:39.039

so that way when we put the new one in  
if everything works out correctly all we

0:05:39.040,0:05:43.300

have to do is caulk all the way around  
the sides but of course that's on the

0:05:43.300,0:05:46.540

inside on the outside we'll also caulk  
it to the wood bucking

0:05:46.540,0:05:48.540

that's the wood bucking I was telling you about before

0:05:48.540,0:05:50.840

so we're going to put our window against

0:05:51.000,0:05:54.900

it too and we're gonna caulk it right to  
that now down here at the bottom that's

0:05:54.910,0:05:59.500

a little different though because you  
wouldn't want to have wood wood would rot

0:05:59.500,0:06:03.580

pretty quickly because you know gravity  
water falls down so they put in a

0:06:03.580,0:06:09.280

concrete sill and the concrete sill has  
this little concrete edge on it so we're

0:06:09.280,0:06:14.260

gonna caulk right to that to  
okay we're gonna get to work with the

0:06:14.260,0:06:19.900

cleaning it up I found that when we were  
cleaning it up there was a bunch of

0:06:19.900,0:06:23.620

loose caulk on the inside and it's  
better to just go ahead and get rid of

0:06:23.620,0:06:28.180

that now and we'll just have to caulk it  
correctly later I also cleaned the

0:06:28.180,0:06:31.360

window especially the inside of it  
because I don't want to put a dirty

0:06:31.360,0:06:37.210

window inside the house other than that  
I think we're ready to dry fit it so

0:06:37.210,0:06:40.389

what we're checking for as soon as he gets  
it up there is gonna Center it in the

0:06:40.389,0:06:44.350

opening Center it on the inside though  
because that's what everybody's gonna

0:06:44.350,0:06:49.210

see okay so we got the window in and I  
already put two screws in that way the

0:06:49.210,0:06:54.250

guys outside can let go but I just wanted  
to show you guys in here that what we're

0:06:54.250,0:07:00.520

looking for is a gap on all sides now  
obviously I don't know if you the

0:07:00.520,0:07:03.850

camera can see it or not but it's a  
different sized gap at different places

0:07:03.850,0:07:09.639

but that's just that's just because it's

an old house so it's pretty uniform over

0:07:09.639,0:07:13.840

here on the right-hand side but it goes  
from an eighth of an inch at the bottom

0:07:13.840,0:07:19.900

here to about a half an inch at the top  
here and it looks like it's about 3/8 of

0:07:19.900,0:07:23.110

an inch all the way across the top  
there's not much I can do about that

0:07:23.110,0:07:26.200

because everything is not square level  
and plumb that's just because it's an

0:07:26.200,0:07:30.520

old house but once we get all the caulk  
and everything it's going to look real

0:07:30.520,0:07:36.700

good but at least already it's already  
sealed well where we're putting in our

0:07:36.700,0:07:42.400

screws for our new window it doesn't hit  
the wood bucking because the new window

0:07:42.400,0:07:47.410

is wider than the old window so I'm not  
able to use wood screws I have to use

0:07:47.410,0:07:55.510

tapcons tapcons is a blue  
typically blue screw that has special

0:07:55.510,0:08:01.960

threads looks like this  
and that can bite into the concrete but

0:08:01.960,0:08:07.840

you do have to pre-drill and so I take  
my hammer drill and I use my concrete

0:08:07.840,0:08:12.990

bit that's sized correctly  
for this size tapcon and then i'll

0:08:12.990,0:08:19.110

pre-drill it and then screw in my screw  
with my regular drill obviously we have

0:08:19.110,0:08:23.820

put in these replacement windows a few  
days ago and I just wanted to talk to

0:08:23.820,0:08:28.080

you about the things that we've done  
since we put them in to

0:08:28.080,0:08:31.770

finish it off so once you've got the  
window in you're really only about

0:08:31.770,0:08:36.450

halfway down okay there's so much work  
to do to finish it off on the inside and

0:08:36.450,0:08:40.320

on the outside especially if you have  
stucco to do on the outside like these

0:08:40.320,0:08:46.320

do but let's talk about the inside right  
now I don't know if you guys remember

0:08:46.320,0:08:51.300

but we never took out the marble window  
sill the new window went on top of it

0:08:51.300,0:08:56.400

and on top of the existing drywall here  
here and here

0:08:56.400,0:09:03.630

but because the opening was not square  
level plumb on the same plane really

0:09:03.630,0:09:09.390

nothing was right about it we had to put  
it in in such a way we made that window

0:09:09.390,0:09:15.780

look like it was square level plumb so  
we rested it on the marble which

0:09:15.780,0:09:22.170

conveniently was level and then we had  
all of these funky gaps that we had to

0:09:22.170,0:09:28.860

fill in on the inside so a couple  
different methods to do that some guys

0:09:28.860,0:09:34.500

use these tubes of foam that you can get  
at Lowe's or Home Depot for filling in

0:09:34.500,0:09:40.470

large gaps and you can stuff it in and  
then caulk it but that typically means

0:09:40.470,0:09:44.040

you have to caulk it twice because the

first time you caulk it it's going to

0:09:44.040,0:09:49.020

look great while it's still wet but then  
it as it dries it shrinks and then you

0:09:49.020,0:09:53.250

have to caulk it again and the second  
time it looks good but that's not what

0:09:53.250,0:09:57.090

we did here we actually we thought about  
doing that but what ended up working

0:09:57.090,0:10:03.270

even better was we I had my drywall guy  
come and he used what's called 5-minute

0:10:03.270,0:10:07.080

mud which is a type of drywall mud that  
you have to mix yourself it's not a

0:10:07.080,0:10:12.030

ready mix comes in a bag and actually  
says big big number five minutes and

0:10:12.030,0:10:16.140

that five minute means that you have  
five minutes to work with it once it's

0:10:16.140,0:10:20.320

mixed so it gets really hard which is  
great for this application

0:10:20.320,0:10:29.100

because you only need a mix say a like  
the size of three softballs

0:10:29.100,0:10:37.080

worth of mud and that will typically do  
you know maybe say two sides of a window

0:10:37.080,0:10:41.110

depending on how big the gap is but in  
this and this in this house it was about

0:10:41.110,0:10:46.630

you know two sides of a window and then  
typically we had a really big gap at the

0:10:46.630,0:10:53.740

top and that's because with it comes to  
side to side we could Center it and kind

0:10:53.740,0:10:59.380

of make this gap the same as best we can  
on both sides and the top though with

0:10:59.380,0:11:03.640

the bottom resting on the marble  
windowsill the top is whatever it is and

0:11:03.640,0:11:09.040

so some of them it worked out great and  
other ones it didn't and so this one

0:11:09.040,0:11:12.730

we had to fill in a whole bunch I don't  
know if you can kind of zoom in on this

0:11:12.730,0:11:17.590

top part but you can kind of see that  
the old drywall ended about a quarter

0:11:17.590,0:11:21.670

inch higher than where it is now and you  
can kind of see that along here the

0:11:21.670,0:11:25.180

different discolorations because it  
hasn't been painted yet on the sides

0:11:25.180,0:11:29.080

he didn't really need to do this but on the  
top what he did was he wanted to make

0:11:29.080,0:11:32.860

sure that his outside corner had a nice  
straight line well that's really hard to

0:11:32.860,0:11:37.570

do unless you have something to mud it  
to so what he did was he put this piece

0:11:37.570,0:11:43.180

of wood at the height that he wanted to  
make his mud obviously this was this

0:11:43.180,0:11:46.060

piece of wood was for a shorter window  
this this window is the biggest

0:11:46.060,0:11:50.200

window in the house so for this window he used a longer piece of wood anyway he

0:11:50.200,0:11:57.340

put it at the height that he wanted it  
about but he made he made the bottom of

0:11:57.340,0:12:00.990

the wood flush with the top of the  
window where he wanted to stop his mud

0:12:00.990,0:12:06.880

and so he's got this like big gap area  
to fill in with this five-minute mud so

0:12:06.880,0:12:12.940

after he attaches the wood he just stuffs  
it in with his uh drywall knife he

0:12:12.940,0:12:16.150

probably had like three or four  
different sizes taken out of his thing

0:12:16.150,0:12:19.930

and stuff it up in there and smooth it  
across the wood right keep and just keep

0:12:19.930,0:12:24.220

doing that all the way across and then  
he would come up through and swipe it

0:12:24.220,0:12:28.650

and make it all nice and smooth again  
resting it right against the wood and

0:12:28.650,0:12:33.520

then he'd let that dry and  
you know five minutes later he'd be able

0:12:33.520,0:12:38.440

to start doing it again and kind of fill  
in any gaps or air bubbles or lines or

0:12:38.440,0:12:41.410

anything like that

and after the mud dried he could take

0:12:41.410,0:12:45.310

the piece of wood off and then he can

sand it with sandpaper and make it all

0:12:45.310,0:12:49.090

nice and smooth

round over the hard edge of the of the

0:12:49.090,0:12:54.820

outside corner and I once this is

painted it'll look like this window

0:12:54.820,0:12:58.630

was always like that that's the idea you

know make it look like it's always

0:12:58.630,0:12:59.500

been here

0:13:01.600,0:13:03.600

at this house all we have left

to do now is to put in the blinds and I

0:13:05.460,0:13:09.700

think she had some curtains to go

in too to replace the old ones that were

0:13:09.700,0:13:15.370

here the old ones are like 40 years old  
so they I don't know if they even worked anymore

0:13:15.370,0:13:22.260

but now she has a very energy-efficient window and wall it's really great we're gonna

0:13:22.260,0:13:25.980

go outside now look I'm gonna show you  
what we did on the outside of the window

0:13:25.980,0:13:29.980

now we're on the outside of the house  
looking at these replacement windows

0:13:29.980,0:13:35.710

that we put in we put the stucco on and  
my stucco guy did a great job he's got

0:13:35.710,0:13:40.150

a uniform texture you don't see any  
trowel marks he does that I think by

0:13:40.150,0:13:45.220

putting the mud in with his trowel  
getting it all kind of relatively the

0:13:45.220,0:13:49.780

same height and then he goes back after  
it's thumbprint hard where thumbprint

0:13:49.780,0:13:55.630

hard is where you can touch it and you  
can see your thumbprint but it's not so

0:13:55.630,0:13:59.860

soft that it'll just easily come back  
back out he waits so it gets a little bit

0:13:59.860,0:14:04.090

hard and then he washes it with his  
sponge kind of in a circular motion and

0:14:04.090,0:14:10.840

gets all this uniform texture to it the  
other thing he had to do was especially

0:14:10.840,0:14:15.790

on the window sill was it was a real  
smooth surface and the old stucco came

0:14:15.790,0:14:19.360

off real easily but that's why it's  
because they were trying to stick

0:14:19.360,0:14:24.850

it to a real smooth surface so my stucco  
guy had to go through with probably with

0:14:24.850,0:14:29.800

the angle grinder and a diamond blade a  
diamond blade on an angle grinder and

0:14:29.800,0:14:35.590

rough it up just scratch it all up rough  
it up get it all scored up and then put

0:14:35.590,0:14:38.700

on his stucco that way they have something to adhere to something with the mechanical

0:14:38.700,0:14:46.080

fastening type texture the other thing  
he did really great was he kept it a

0:14:46.080,0:14:51.150

uniform reveal all the way around so the  
same amount of window is showing all the

0:14:51.150,0:14:56.280

way around which that made it nice for  
when we were putting in the window we

0:14:56.280,0:15:00.240

knew that he was going to be covering up  
part of the window to the part that we

0:15:00.240,0:15:04.140

caulked and so we didn't have to be real  
concerned about the caulk looking really

0:15:04.140,0:15:09.060

good or not because we knew it was  
getting covered with stucco ok I think

0:15:09.060,0:15:12.770

that's it thank you for watching