

Государственное бюджетное профессиональное образовательное
учреждение Новосибирской области
«Новосибирский технический колледж им. А.И. Покрышкина»



КОМПЛЕКТ УЧЕБНО-ПРОГРАММНОЙ ДОКУМЕНТАЦИИ

по специальности среднего профессионального образования

15.02.19 Сварочное производство

по программе *базовой* подготовки
Квалификация: **техник**

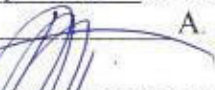
Форма обучения - **заочная**

Нормативный срок обучения – **3 года и 10 мес.**
на базе среднего общего образования

Рассмотрено на заседании методического совета:

Протокол № 01 от «19» мая 2025 г

Председатель методического совета  Е. В. Романова

Зам. директора по учебной работе  А. А. Головнин


НОВОСИБИРСК
2025

KH>?J@:GB?

1. H;S:Y O:J:DL?JBKLB D: J::HQ?C IJH=J 3
MQ?;GHC >BKPBIEBGU
2. KLJMDLMJ: B KH>?J@:GB? MQ?;GHC >BKPB 4
3. MKEH<BY J?:EBA:PBB MQ?;GHC >BKPBIEBG 10
4. DHGLJHEV B HP?GD: J?AMEVL:LH< HK<H?C 12
>BKPBIEBGU

H;S:Y O:J:DL?JBKLBD: J:;HQ?C IJH=J:FFU MQ?;GHC
>BKPBIIEBGU 'K= BKLHJBY JHKKBB“

F_klh bklbggu \ kljmdlmj_ h[jZah\ZI_evghc ijh]jZffu
Mq_[gZy ^bkpbiebgZ 'K= Bklhjby Jhkkbb“ y\ey_lky
khpZbZelmgfZgblZjgh]h pbdeZ h[jZah\ZI_evghc ijh]jZffu_jZehvlgufIk
]hkm^Zjkl_gguf h[jZah\ZI_evghc klZg^hZjklbkgZ^eg]h]hijh[jZah\Z
ki_pbZevghklb K\Zjhqgh_ ijh,ba\m^klj\h_ggh]h ijbdZah
Fbgbkl_jkl\ijhk_s_gbklbkdhc nb^h]Zpb ghy[jy 907
aZj_]bkljbjh\Zg Fbgbkl_jkl\hf xklbpbb JhkkbbkdZ^jyN_^_jZpb1b
76769 ^ZeN=HK KIH
Hkh[h_agZq_gb_ ^bkpbiebgZ bf__l ijb nhjfbjh\Zgbb b jZa\
HD HD , HD

P_ev b ieZgbjm_fu_j_amevlZlu hk\h_gby ^bkpbiebggu
P_evx mq_[ghc ^bkpbiebggu y\ey_lky nhjfbjh\Zgbb^klZ
Jhkkbb dZd bklhjbb Hl_q_kl\Z __ hkgh\guo _oZo Z lZd
gZpbhgZevguo p_gghkl_c m\Z'_gby d bklhjbb dmevlmj_ lJZ^
lZd'_ bklhjbb\h_s_gg_kdmx gZijZ\^e_gghklv nhjfbjmy m fheh^z
]hlh\g\kld aZsbl_ bklhjbbq_kdhc ijZ\^u b khojZg_gbx bklh
ijhlb\h^_ckl\bx nZevkbnbdZpb bklhjbbq_kdbo nZdlh\
:dlmZevghklv mq_[ghc ^bkpbiebggu 'Bklhjby Jhkkbb“ aZdexq
gZijZ\^e_gghklb gZ j_ZebaZpbx _^bgkl\Z bkl\Z_b]h^mqZjklbZ h[
\hkiblZgby j]Z'^ZgbgZ Jhkkbb >bkpbiebgZ kihkh[kl\m_l nhjfbj
j]Z'^Zgkl_gghklb dZd \Z'g_crbo gZijZ\^e_gbc \hkiblZgby h[mqZx
< jZfdZo ijh]jZffu mq_[ghc ^bkpbiebggu h[mqZxsbfbk y hk\Z
mf_gbyagZgby

Dh^u HD ID	Mf_gby	AgZgby
HD	>he'_g mf_lv	>he'_g agZlv
HD2,	\u^_eylv nZd	dexq_\u_ kh
HD	hij_^_eb\rb_ mgbc	hkgh\gu_ ^Zlu b bk
HD	klZgh\^e_gby ^mjZ^klghg	wlZiu jZa\blby Jhk
HD	p_gghkl_c \ Jhkkbb	gZklhys_]h \j_f_gb
HD	ZgZebabjh\Zlv	\u^Zxs^p ^_yl
HD	oZjZdl_jbah\Zlv	hl_q_kl_gghc bklhjbb
	ijbqbggk^kl_gggu_ k\	agZqbl_evduc \deZ^ \
	ijhkljZgkl_ggh_ggu_	wdhghfbq_kdh_ iheb
	oZjZdl_jbklbdb bkl	dmevlmjgh_ jZa\blb_ J
	kh[ulbc y\^e_gbc ijh	ljZ^bpbhggu_ jhk
	\j_f_g h[jZah\Zgby >j_	^moh\gjZ\kl_gggu_ p;_ggh
	]hkm^Zjkl\Z ^h gZklhys	jhev b agZq_gb_
	ZgZebabjh\Zlv bkl	kh\j_f_gghf fbj_
	bgnhjfZpbx jmdh\h	
	ijbgpbiZfb gZmqghc k[h	
	b ^hklh_jghklb k	
	nhjfbjh\Zgby g	
	h[hkgh\Zggh]h ih	
	ijhreh]h b gZklhys_]h J	
	aZsbsZlv bklhjbb	
	ijZ\^m g_ ^himkdZlv	

	ih^\b]Z jhkkbckdh]h aZsbl_ Hl_q_kl\Z ^_fhgkljbjh\Zlv]h ijhIb\hklhylv nZevyb jhkkbckdhc bklhjbb - ^_fhgkljbjh\Zlv m\Z hlghr_gb_ d bklhj gZke_ ^bx b khpbhd ljZ^bpbyf Jhkkbckdh]h	
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KLJMDLMJ: B KH>B?@M?;GHC >BKPBIIEBGU

H[t_f mq_[ghc ^bkpbiebgub \b^u mq_[ghc jZ[hlu

<b^ mq_[ghc jZ[hlu	H[t_f \ qZkZo
H[t_f h[jZah\ZI_evghc ijh]jZffu	46
\ l q	
l_hj_lbq_kdh_ h[mq_gb_	40
kZfhklhyl_evgy jZ[hIZ	4
ljhf_ 'mlhqgZy ZII_klZpby \ nhjf_Z^ghr]hjaZpbjZ	2

L_fZlbq_kdbc ieZg b kh^_j'Zgb_ mq_[ghc ^bkpbiebg

GZbf_gh\Zg jZa^_eh\ b	ljb_f_jgh_ kh^_j'Zgb_ mq_[gh]h fZl_jbZeZ b r ^_yl_evghklb h[mqZxsboky	H[t_f ZdZ^ \ lhf qbke_ \ n ijZdlbq_kdhc ih^]hlh\db Zd	Dh^u dhfi_l_gpb ebqghklgu j_amevlZih nhjfbjh\Zgb dhlhjuo kihkh[kl\m we_f_gl ijh]jZffu
1	2	3	4
L_fZ 'Jhkk k\ys_ggZy g ^_j'Z\Z	Kh^_j'Zgb_ mq_[gh]h fZl_jbZeZ Bklhjby]bfgZ bJhkkZ KIZgh\^gb_ ^moh\g F_klh b jhev Jhkkbb \ fbjh\hf_khh[s_kl\ Jhkkbb b _^bgkl\h jhkkbckdhc pb\bebaZpbb]_hiheblbq_kdh_ wdhghfbq_kdh_ b dmevlm bggh\Zpbb bemgjhklv \ [m^ms__	4 4	HD HD HD HD HD HD HD
L_fZ HI Jn Jhkkbb \u[h imlb h[j_l_g g_aZ\bkbfhk klZgh\^gb_ _ ^bgh]h]hkm^Zjkl\Z	Kh^_j'Zgb_ mq_[gh]h fZl_jbZeZ WdkiZgkby dZlhebq_kl\Z ijhlb\ ijZ\hkeZ_kkbyJ AZiZ^Z G_\kdZy [bl\Z b E_ ^h\h_ ih[hbs_\u[h imlb Kh[bjZgb_ jmkkdbo a_f_ev \hdjm] Fhkd g_aZ\bkbfhklb Jmkb hl H_jhukkBjZglZgh\blky p	4 4	HD HD HD HD HD HD
L_fZ Kfml ij_h^he_gb_	Kh^_j'Zgb_ mq_[gh]h fZl_jbZeZ A_fkdb_ kh^gh^gh_ ij_ ^klZ\bl_evkl\h b ljbqbggu oh^ b ihke_ ^kl\by Kfmlgh]h- gZjh^gh]h _^bgkl\Z dZd h[t_ ^bg_gby gZ \gmlj_gg_]h jZkdbeZkljZggghc bgl_j_gpbb]jZ'^Zgkdh]h b iZljbhlbq_kdh]h kZfhkhagZg hiheq_gby	2 2	HD HD HD HD HD HD
L_fZ <hkkIZgh\^e_	Kh^_j'Zgb_ mq_[gh]h fZl_jbZeZ M]g_l_gb_ ijZ\hkeZ\guo jmkkdbo ex^_c \ khk	2 2	HD HD HD HD

^bgkl\Z jmk gZjh^Z h[t^bg_gb_ <_ebdhc b F Jmkb	lhkiheblhc ;hjv[Z aZihjh'kdbo dZaZdh\ ih^ Of_evgbpdh]h aZ ijZ\hkeZ\gmx _jm b _^bgk FZehjhkkbb <_ebdhc Jhkkb[hq A_fkdbd_khyk JZ^Z] -JmekkkdhZy \hcgZ]]		HD	HD
L_fZ lzlj <_ebdbc KljhbI_ev _ebdhc bfi_	Kh^_j'Zgb_mq_[gh]h fZI_jbZeZ Dhgkheb^Zpby l_ljhf , \gmlj_ggbp_kbe Jhkku rbjhdmx fbjh\mx Zj_gm <gmlj_ggb_ j_nh ijhba\h^bl_evguo kbe kljZgu b mdj_ie_gby KljhbI_evkl\h _ebdhc bfi_jbb p_gZ b j_a hk\h_gby Kb[bjb b >Zevg_]h <hklhdZdjbb kjZ\g_gbb k dhehgbZevgufb aZo\ZIZfb aZiZ^g	4	HD	HD
L_fZ ?dZI ,, ijh^he'ZI _ebdbo ^_e l_ljZ ,	Kh^_j'Zgb_mq_[gh]h fZI_jbZeZ ljhk_szgguc Z[khexlbaf \ Jhkkbb J_rogaZ^ ijbkh_^bg_gb_ DjufZ hk\h_gb_ Gh\hjkh ljZ\h[_j'_vy >g_ijZ b ;_ehjmkkbb k Jhkkb_c gZmdb b dmevlmju k kms_kl\mxsbf dj_ihklguf	2	HD	HD
L_fZ HI ih gZ^ GZihe_ ^h Djufkd \hcgU	Kh^_j'Zgb_mq_[gh]h fZI_jbZeZ Jhev Jhkkbb \ kiZk_gbb ?\jhiu hl wdkiZgkbb Bklhdb iZljbhIbafZ gZjh^h\ kljZgu JZkrbj_ _ebdhc ^_j'Z\U Jhkkbb \ i_j\hc iheh\bg_ \hjkh" DjufkdZy \hcgZ dZd ihiuldZ AZiZ^Z ihjZ'_gb_" Jhkkbb lZfylv h]_jhyo h[hjhgu Djufkdhc \hcgU <_ebdb_ j_nhjfu :e_dkZg^ kljZgu ijb :e_dkZg^j_ ,,,	2	HD	HD
L_fZ =b bfi_jbb	Kh^_j'Zgb_mq_[gh]h fZI_jbZeZ JmkkdZy j_\hexpby]]-gZqZeh eb[_jZevgh]h gZ^ bklhjbq_kdhc Jhkkb_c l_j\Zy fbjh\Zy \ kjZ'_gbc b fh[bebaZpby kljZgu HI N_\jZheYZd k_j]Zeb pZjy gh kehfZeb jhkm^Zjkl\h =jZ' fbjh\hc j_\hexpbb gh \hajh'^_gb_ bgklbg kZfhkhhojZg_gby	2	HD	HD
L_fZ	Kh^_j'Zgb_mq_[gh]h fZI_jbZeZ	2	HD	HD

_ebdbo ihljyk_gbc <_ebdhc lh[_	<u[hj imlb jZa\blby \hkkkZgh\e_gby pb\beba Jhkkbb \ \b^_ KKKJ l_j_dhku 'dhj_gbaZpbb“ b l_jjblhjBZevgu_ 'ih^Zjdb“ [hevr_bdh\ :glbj_eb]bhagZy dZfiZgby_ BakZjggbkdbg^mkl Dhee_dlb\baZpby b __ ihke_^kl\by lh ij__fkl_gghklb hl ^hj_hexpbhgghc Jhkkbb _]h \ujZ'_gb_ \ <_ebdhc Hl_q_kl_gghc \hcg_	2	HD HD HD	HD HD
L_fZ '<kl kljZgZ h]jhfg	Kh^_j'Zgb_mq_[gh]h fZl_jbZeZ ljbqbgub ij_^ihkuedb <_ebdhc Hl_q_kl_ggh qZklb <lhjhc fbjh\hc \hcguljhlib\ dh]h fu h[t_^bg_ggZy ih^ gZpbklkdhc k\Zklbdhc Hk <_ebdhc Hl_q_kl_gghc \hcgulZljbhlibq_kdbd :dlmZevgu_mjhdb ihgylb_ ^bgkl\Z njhglZ b b ij_^Zt_hes_i_gpu <_ebdZy Hl_q_kl_ggZy \ iZfylb gZr_]h gZjh^Z Bklhdb ih^\b]Z gZjh^f bfb <_ebdh[_^u	4	HD HD HD HD	HD HD HD
L_fZ < [n _ebdbo kljh	Kh^_j'Zgb_mq_[gh]h fZl_jbZeZ =_hiheblbq_kdb_j_amevlZlu ih[_^u \ <_ebd <hajh'^_gb_jZajmr_gghc wdhghfbdb dmev ihke_ \hcgulEbd\b^Zpby KKKJ y^_jghc fhgh mkeh\byo gZ\yaZggghc AZiZ^hf oheh^ghc \hc ^h]h\hj K-keb^_j [hjv[u aZ hk\h[h'^_gb_kljZ EZlbgkdhc :f_jbdb hl dhehgbZevghc b g_hdh WZiu wdhghfbq_kdh]h jZ-1970lo y]\ agZq_gb_ ^ \ gZmd_ ijhfure_gghklb b k_evkdhf ohayc Jhkkbckdhc N_^_jZpbb	2	HD HD HD HD	HD HD
L_fZ i_j_kljhcdb djbabkm djbabkZ \hajh'^_gbx	Kh^_j'Zgb_mq_[gh]h fZl_jbZeZ ljbqbgub 'i_j_kljhcdb“ jhev h[t_dlb\guo b km __ oh^_ b blh]Zo lh^^_j'dZ AZiZ^hf k_iZj gZpbhgZebafZ jZk\ZebkZkZy]_hiheblbq_kd Jhkkby \ -_] djbabk wdhghfbdb h[gsZg djbfbgZebaZpby h[ps_gZ\Z_nhjfo]] lhiuldZ ^ heb]Zjoh\ Dhgnebdlu gZ K__jghf DZ\dZa_ k	2	HD HD HD HD	DH HD HD