

Iowa SENSE Aligned Welding Curriculum

Recommended 9 month Program Sequence:

Term 1

WEL 228: Introduction to Welding, Safety and Health of Welders: SENSE 1 – 1 credit

WEL 233: Print Reading and Welding Symbol Interpretation: SENSE 1- 3 credits

WEL 262: Thermal Cutting Processes I – Manual and Mechanized OxyFuel Cutting: SENSE 1 – 2 credits

WEL 263: Thermal Cutting Processes II - Plasma and Carbon Steel Arc: SENSE 1 – 2 credits

WEL 244: Gas Metal Arc Welding Short Circuit Transfer: SENSE 1 – 2 credits

WEL 245: Gas Metal Arc Welding Spray Transfer: SENSE 1– 2 credits

Total – 12 credits

***For diploma add Math course to this term and Liberal Arts as required**

Term 2

WEL 280: Flux Cored Arc Welding - Self-Shielded: SENSE 1 – 2 credits

WEL 281: Flux Cored Arc Welding - Gas Shielded: SENSE 1 – 2 credits

WEL 274: Shielded Metal Arc Welding I: SENSE 1 – 3 credits

WEL 275: Shielded Metal Arc Welding II: SENSE 1 - 3 credits

WEL 251: Gas Tungsten Arc Welding for Carbon Steel: SENSE 1 - 2 credits

WEL 252: Gas Tungsten Arc Welding for Aluminum: SENSE 1 - 1 credit

WEL 253: Gas Tungsten Arc Welding for Austenitic Stainless Steel: SENSE 1 – 1 credit

WEL 254: Welding Inspection and Testing Principles: SENSE 1 – 1 credits

Total – 15 credits

***For diploma – add Liberal Arts credits to this term as required**

This workforce solution is funded by the I-AM Consortium which is 100% financed through a \$12,951,165 grant from the Department of Labor's Employment & Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership



"This work is licensed under the Creative Commons Attribution 3.0 Unported License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/3.0/>."

Iowa SENSE Aligned Welding Curriculum

Recommended 12 month Program Sequence:

Term 1

WEL 228: Introduction to Welding, Safety and Health of Welders: SENSE 1 – 1 credit

WEL 233: Print Reading and Welding Symbol Interpretation: SENSE 1- 3 credits

WEL 262: Thermal Cutting Processes I – Manual and Mechanized OxyFuel Cutting: SENSE 1 – 2 credits

WEL 263: Thermal Cutting Processes II - Plasma and Carbon Steel Arc: SENSE 1 – 2 credits

WEL 244: Gas Metal Arc Welding Short Circuit Transfer: SENSE 1 – 2 credits

WEL 245: Gas Metal Arc Welding Spray Transfer: SENSE 1– 2 credits

Total – 12 credits

***For diploma add Math course to this term**

Term 2

WEL 280: Flux Cored Arc Welding (Self-Shielded): SENSE 1 – 2 credits

WEL 281: Flux Cored Arc Welding (Gas Shielded): SENSE 1 – 2 credits

WEL 274: Shielded Metal Arc Welding I: SENSE 1 – 3 credits

WEL 275: Shielded Metal Arc Welding II: SENSE 1 - 3 credits

WEL 254: Welding Inspection and Testing Principles: SENSE 1 – 1 credits

Total – 11 credits

***For diploma – add Liberal Arts credits to this term as required**

Term 3

WEL 251: Gas Tungsten Arc Welding for Carbon Steel: SENSE 1 - 2 credits

WEL 252: Gas Tungsten Arc Welding for Aluminum: SENSE 1 - 1 credit

WEL 253: Gas Tungsten Arc Welding for Austenitic Stainless Steel: SENSE 1 – 1 credit

Total – 4 credits

***For diploma – add Liberal Arts credits to this term as required**

This workforce solution is funded by the I-AM Consortium which is 100% financed through a \$12,951,165 grant from the Department of Labor's Employment & Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership



"This work is licensed under the Creative Commons Attribution 3.0 Unported License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/3.0/>."