

CHAPTER V

CONCLUSIONS

This chapter contains conclusions from the discussion regarding OHS analysis of the facilities and infrastructure used by students of the Faculty of Engineering, Universitas Andalas. In addition, this chapter also contains suggestions for future research.

5.1 Conclusions

OHS planning for facilities and infrastructure used by students of the Faculty of Engineering, Universitas Andalas consists of hazard identification, risk assessment, determination of legal requirements and other requirements governing risk control to be determined, planning actions, and verification. Based on the hazard identification carried out, it is known that there are 119 potential hazards that occur at the facilities and infrastructure used. These hazards are grouped into three categories, namely hazards with low, medium, and high risks. Based on the risk assessment carried out by OHS experts, it is known that of the 119 hazards that have been identified, 12 of them are in the low-risk category, 100 are in the medium-risk category, and 7 are in the high-risk category.

To overcome the risks from hazards that occur in facilities and infrastructure used by students of the Faculty of Engineering, Universitas Andalas, appropriate risk control is determined based on the control hierarchy and legal requirements and other requirements related to or governing risk control to be determined. The output of this planning stage is in the form of risk control proposals in the HIRARC sheet and documents such as SOPs and work permits. The SOP made by the research is the Laboratory Equipment and Room Maintenance SOP and Emergency Response SOP, while the work permit made in this research is the High-Risk Work Permit. SOPs and work permit that have been

made are verified by OHS experts so that the documents made are correct and can be proposed to the OHS team of the Faculty of Engineering, Universitas Andalas to be applied or used.

5.2 Suggestions

The following are suggestions for further research.

1. Research should be carried out at all facilities and infrastructure of Universitas Andalas so that the analysis carried out is more complex.
2. Research should be carried out based on the 10 clauses in ISO 4500:2018 (starting from determining the scope to making continuous improvements) so that an OHS Management System of Universitas Andalas can be created.
3. Risk assessment in further research should be carried out by considering all OHS risks starting from risks perceived by a person, property risks, cost risks, to reputation risks.